CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, January 18, 1906.

CONTENTS.

	Page No.
Plans and Specifications on File	21
List of Contracts Pending	21
Railways	22
Electric Railways	22
Light and Power Plants	22
Bridges	23
Buildings	23
Water Supply and Irrigation	24
Sewerage	25
Garbage Disposal	25
Streets and Roads	25
Manufacturing Plants	25
Miscellaneous Contracts	26
Contract Prices	27
U. S. Possessions and Cuba	27
Foreign Contracts and Export News	27
READERS' WANTS	26
INDUSTRIAL NOTES	27
PROPOSALS	27-28

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Jan.				
*19	Bridge substrctre.	Salem, Mass.	P. & S.	12-28
*19	Bdge superstrctre.	Salem, Mass.	P. & S.	12-28
*19	Bridge.	Salem, Mass.	P. & S.	12-28
20	Dredging.	Guantanamo, Cuba	S.	12-21
*23	Boiler house.	Philadelphia, Pa.	P. & S.	12-28
*22	Turbine pump.	Winnipeg, Man.	S. & B. S.	1- 4
*25	Sewer system.	Gainesville, Fla.	S. & B. S.	1- 4
25	Wireless telegraph apparatus.	New York, N. Y.	S.	1-11
*31	Water & sewer sys.	Parral, Mex.	S.	12-14
Mch.				
*1	Canals, etc.	Roswell, N. Mex.	P. & S.	12-28
*1	Power house.	West Point, N. Y.	P. S. & B. S.	1- 4
*1	Dam, etc.	Boise, Idaho	P. & S.	1- 4
1	Vessel.	Washington, D. C.	P. & S.	1-11
1	Water-works.	Palatka, Fla.	S.	1-18
*1	Coagulating basin.	Norfolk, Va.	P. & S.	1-18
2	Ditch.	Willmar, Minn.	S.	1-18
*6	Water system.	Greeley, Colo.	S. & B. S.	1- 4
*7	Bulkheads, etc.	Baltimore, Md.	P. & S.	1-18
10	Steel caisson.	Charleston, S. C.	S.	1-11
10	Fire alarm system.	Norfolk, Va.	S.	1-18
10	Pier.	Portsmouth, N. H.	S.	1-18
*10	Two snagboats.	Vicksburg, Miss.	P. & S.	1-11
Apr.				
*2	Port works.	Chile	P. & S.	5- 4
5	Wharves.	Manila, P. I.	P. & S.	12-14

*Work advertised in Engineering News.

NOTE—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Jan. 30. Electrical apparatus, Washington, D. C. Jan. 18
Feb. 1. Power house, West Point, N. Y. Jan. 4
Advertised, Eng. News, Jan. 4 to 25.
Feb. 7. Lighting, Greenwich, N. Y. Jan. 11
Feb. 9. Lighting plant, water-.w, Watonga, Okla. Jan. 11
Feb. 12. Generators, etc., Winnipeg, Man. Jan. 18
Advertised, Eng. News, Jan. 18 and 25.
No date. Gas plant, Mains, Elkader, Ia. Dec. 14

BRIDGES.

Jan. 19. Substructure, Salem, Mass. Dec. 28
Advertised, Eng. News, Dec. 28 and Jan. 4.
Jan. 19. Superstructure, Salem, Mass. Dec. 28
Advertised, Eng. News, Dec. 28 and Jan. 4.
Jan. 23. Bridge, Belgium Nov. 2
Jan. 23. Bridges, York, Neb. Jan. 11
Feb. 1. Bridges, Harrisburg, Pa. Jan. 18
Feb. 14. Bridges, Philadelphia, Pa. Jan. 18
Advertised, Eng. News, Jan. 18 to Feb. 1.

BUILDINGS.

Jan. 22. Buildings, Omaha, Neb. Jan. 11
Jan. 22. Sanitary work, Brooklyn, N. Y. Jan. 18
Jan. 22. Heating, etc., Flushing, N. Y. Jan. 18
Jan. 22. Addition, Brooklyn, N. Y. Jan. 18
Jan. 23. Engine house, New York, N. Y. Jan. 18
Jan. 24. Court-house, Jersey City, N. J. Jan. 11
Advertised, Eng. News, Jan. 11 and 18.
Jan. 25. Plumbing, etc., New York, N. Y. Jan. 18
Jan. 26. Jail, Jacksonville, Fla. Dec. 28
Jan. 30. Church, La Crosse, Wis. Jan. 4
Jan. 26. Plumbing, heating, etc., Fort Logan H. Roots, Ark. Jan. 4
Jan. 26. Shelter, Fort Morgan, Ala. Jan. 4
Jan. 29. School, East Orange, N. J. Jan. 11
Jan. 29. Building, East Orange, N. J. Jan. 11
Jan. 29. Stone wall, Washington, D. C. Jan. 18
Jan. 30. Heating, Blackwell's Island, N. Y. Jan. 18
Jan. 30. Wiring, Washington, D. C. Jan. 11
Jan. 31. School, Bancroft, Neb. Jan. 4
Jan. 31. Library plans, Toronto, Ont. Nov. 23
Jan. 31. Fixtures, Ft. Meade, S. Dak. Jan. 18
Advertised, Eng. News, Jan. 18 and 25.
Feb. 3. Windows and frames, Washington, D. C. Jan. 18
Advertised, Eng. News, Jan. 18 to Feb. 1.
Feb. 1. Library, Edgerton, Wis. Dec. 21
Feb. 1. Building, Des Moines, Ia. Jan. 11
Feb. 1. Town hall, Perham, Minn. Jan. 11
Feb. 2. Building, Northfield, Minn. Jan. 11
Feb. 5. Heating and Plumbing, Logan, Ia. Jan. 4
Feb. 5. Hotel, Springfield, Mo. Jan. 18
Feb. 6. Veranda, Delaware City, Del. Jan. 18
Advertised, Eng. News, Jan. 18 and 25.
Feb. 6. Heating, etc., Donaldsville, La. Jan. 18
Feb. 6. Steel sheds, New Orleans, La. Jan. 4
Feb. 6. Officers' quarters, Chelsea, Mass. Jan. 4
Feb. 9. Building, Ames, Ia. Jan. 4
Feb. 16. Armory, Holyoke, Mass. Jan. 18
Mar. 5. Elevator, Grand Rapids, Mich. Jan. 18
Advertised, Eng. News, Jan. 18 and 25.

WATER SUPPLY AND IRRIGATION.

Jan. 19. Pipes, valves, etc., St. Louis, Mo. Jan. 11
Jan. 19. Main, hydrants, etc., New York, N. Y. Jan. 11
Jan. 19. Water-works supplies, St. Louis, Mo. Dec. 28
Jan. 22. Turbine pump, Winnipeg, Man. Jan. 4
Advertised, Eng. News, Jan. 4 and 11.
Jan. 24. Pipe, Perth Amboy, N. J. Jan. 18
Jan. 25. Boiler, Parkersburg, W. Va. Jan. 18
Advertised, Eng. News, Jan. 18 and 25.
Jan. 30. Water-works, Fayette, Mo. Jan. 18
Jan. 30. Water-works, Osceola, Ark. Jan. 18
Advertised, Eng. News, Jan. 18.
Jan. 30. Pumping station, Cincinnati, O. Jan. 4
Jan. 31. Water and sewer system, Parral, Mex. Dec. 14
Advertised, Eng. News, Dec. 14.
Feb. 1. Coagulating basin, Norfolk, Va. Jan. 18
Advertised, Eng. News, Jan. 18 and 25.
Feb. 1. Water-works, Palatka, Fla. Jan. 18
Feb. 2. Water system, Waverly, Minn. Jan. 18
Feb. 3. Water system, Fort Fremont, S. C. Jan. 11
Feb. 5. Water-works, McMinnville, Ore. Jan. 11
Feb. 5. Condensers, Jacksonville, Fla. Jan. 18
Feb. 6. Water-works, Brandon, Minn. Jan. 18
Feb. 6. Water system, Greeley, Colo. Jan. 4
Advertised, Eng. News, Jan. 4 and 11.
Feb. 7. Stand-pipe, filter plant, Rahway, N. J. Jan. 18
Advertised, Eng. News, Jan. 18 to Feb. 1.
Feb. 10. Reservoir, etc., Sandy Hook, N. J. Jan. 18
Feb. 15. Water-works, De Queen, Ark. Jan. 4
Advertised, Eng. News, Jan. 4.
No date. Water meters, Delphi, Ind. Dec. 7
Advertised, Eng. News, Dec. 7.
No date. Water-works, etc., Zionsville, Ind. Dec. 21

SEWERAGE.

Jan. 19. Sewers, Bloomington, Ill. Jan. 18
Jan. 20. Sewer, Lexington, Ky. Jan. 18
Jan. 22. Pipe, Fredericton, N. B. Jan. 18
Jan. 22. Sewer, Youngstown, O. Jan. 18
Jan. 22. Sewer, Washington, D. C. Jan. 18
Jan. 23. Sewers, Atlantic, Ia. Jan. 4
Advertised, Eng. News, Jan. 4.
Jan. 23. Sewers, Cleveland, O. Jan. 18
Jan. 23. Sewers, New York, N. Y. Jan. 18
Jan. 25. Sewer system, Lexington, N. C. Jan. 4
Advertised, Eng. News, Jan. 4 to 18.
Jan. 25. Sewer system, Gainesville, Fla. Jan. 4
Advertised, Eng. News, Jan. 4 to 18.
Jan. 25. Sewers, Cincinnati, O. Jan. 11
Jan. 29. Sewage disposal plant, Fairmont, Ia. Jan. 11
Jan. 27. Sewers, Des Moines, Ia. Jan. 18
Feb. 1. Sewers, Reading, Pa. Jan. 18
Advertised, Eng. News, Jan. 18 and 25.
Feb. 1. Sewer system, St. Johns, Ore. Dec. 21
Feb. 5. Sewers, Fresno, Cal. Jan. 18
Feb. 5. Sewers, Cincinnati, O. Jan. 18
Feb. 5. Sewer system, Narberth, Pa. Jan. 18
Advertised, Eng. News, Jan. 18 and 25.
Feb. 6. Addition, disposal plant, Savannah, Ga. Jan. 18
Feb. 15. Storm sewer system, Dayton, O. Jan. 4

STREETS AND ROADS.

Jan. 22. Paving, Jacksonville, Fla. Jan. 11
Jan. 22. Repairing pavement, New York, N. Y. Jan. 18
Jan. 23. Paving, New York, N. Y. Jan. 18
Jan. 25. Grading, Cincinnati, O. Jan. 18
Jan. 25. Paving, Winchester, Ind. Jan. 11
Jan. 26. Paving, Buffalo, N. Y. Jan. 18
Jan. 29. Paving, Galveston, Tex. Jan. 18
Feb. 1. Paving, Lawton, Okla. Jan. 11
Feb. 5. Grading, Rockville, Ind. Jan. 11
Feb. 5. Paving, Lawrence, Kan. Jan. 18
Advertised, Eng. News, Jan. 18.
Feb. 5. Paving, St. Paul, Minn. Jan. 18
Feb. 7. Roads, Jefferson Barracks, Mo. Jan. 18
Feb. 10. Paving sidewalks, Roanoke, Va. Jan. 18
Advertised, Eng. News, Jan. 18.
Feb. 13. Paving, Independence, Kan. Jan. 18
Advertised, Eng. News, Jan. 18.
Feb. 14. Paving, Little Rock, Ark. Jan. 18
No date. Paving material, Lynchburg, Va. Dec. 14
Advertised, Eng. News, Dec. 14.

MISCELLANEOUS CONTRACTS.

Jan. 20. Railways, Philippine Islands Dec. 28
Jan. 20. Dredging, Guantanamo, Cuba Dec. 21
Jan. 20. Levee, Pekin, Ill. Jan. 18
Jan. 23. Iron work, Netherlands (Foreign) Jan. 18
Jan. 23. Railings, New York, N. Y. Jan. 11
Jan. 24. Vessel, Washington, D. C. Jan. 4
Jan. 24. Electric hoists, New York, N. Y. Jan. 11
Jan. 25. Wireless teleg'ph apparatus, N. Y., N.Y. Jan. 11
Jan. 29. Plants, etc., Atlantic Coast Line Jan. 4
Advertised, Eng. News, Jan. 4 to 18.
Jan. 30. Ingots, spelter, Italy (Foreign) Jan. 4
Jan. 31. Tunnel, Guanapuato, Mex. Dec. 14
Feb. 1. Canals, Roswell, N. Mex. Dec. 28
Advertised, Eng. News, Dec. 28 to Jan. 18.
Feb. 1. Dam, Boise, Idaho Jan. 4
Advertised, Eng. News, Jan. 4 to 25.
Feb. 1. Vessel, Washington, D. C. Jan. 11
Feb. 2. Supplies, Panama Jan. 18
Feb. 2. Ditch, Willmar, Minn. Jan. 18
Feb. 5. Drain, Iowa City, Ia. Jan. 4
Feb. 6. Steel sheds, New Orleans, La. Dec. 28
Advertised, Eng. News, Dec. 28 and Jan. 4.
Feb. 6. Cement, Belle Fourche, S. Dak. Jan. 11
Advertised, Eng. News, Jan. 11 to Jan. 25.
Feb. 6. Dock, Palm Beach, Fla. Jan. 18
Feb. 6. Cement, Montrose, Colo. Jan. 18
Advertised, Eng. News, Jan. 18 to Feb. 1.
Feb. 7. Bulkheads, etc., Baltimore, Md. Jan. 18
Advertised, Eng. News, Jan. 18 to Feb. 1.
Feb. 7. Railway, Belgium (Foreign) Jan. 18
Feb. 8. Riprap breakwaters, New York, N. Y. Jan. 11
Advertised, Eng. News, Jan. 11 to Feb. 1.
Feb. 8. Steel lock gates, Nashville, Tenn. Jan. 11
Advertised, Eng. News, Jan. 11 to Feb. 1.
Feb. 8. Drainage ditch, Sioux City, Ia. Jan. 4
Feb. 9. Building, Spain (Foreign) Jan. 18
Feb. 10. Pier, Portsmouth, N. H. Jan. 18
Feb. 10. Fire alarm system, Norfolk, Va. Jan. 18
Feb. 19. Wooden snagboats, Dallas, Tex. Jan. 18
Advertised, Eng. News, Jan. 18 to Feb. 8.
Feb. 10. Breakwaters, etc., Egypt (Foreign) Jan. 4
Feb. 10. Steel caisson, Charleston, S. C. Jan. 11
Feb. 13. Steel tower, Shreveport, La. Dec. 28
Advertised, Eng. News, Dec. 28 to Feb. 8.
Feb. 15. Locks and dams, Dallas, Tex. Jan. 4
Advertised, Eng. News, Jan. 4 to 18 and Feb. 8.
Mar. 10. Two snagboats, Vicksburg, Miss. Jan. 11
Advertised, Eng. News, Jan. 11-18, Feb. 1-8.
Apr. 5. Wharves, Manila, P. I. Dec. 14
Apr. 2. Port works, Chile May 4
Advertised, Eng. News, May 4, 1905 to Apr. 1, 1906.
Apr. 3. Ditch, Spirit Lake, Ia. Jan. 18
May 1. Steel dock, Chile Nov. 9
No date. Filling, Far Rockaway, N. Y. Dec. 14
Advertised, Eng. News, Dec. 14.
No date. Railroad grading, etc., Tidewater Ry. Dec. 14
Advertised, Eng. News, Dec. 14 to 28.
No date. Dyke, Lincoln, Neb. Jan. 18
Advertised, Eng. News, Jan. 18.

TO ENGINEERS AND CONTRACTORS

ENGINEERING NEWS desires to obtain the **earliest possible reliable information** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

ADDRESS

Wainwright A. S. Randall, Editor,
The Construction News Department.

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

AUGUSTA & ELBERTON.—It is reported that construction will be resumed soon and that company is to have completed the first 15 miles within three months. Bonds have been sold. When completed the line will be 60 miles long, extending from Augusta to Elberton, Ga. The officers are E. F. Verdery, Pres.; E. H. Nixon, Vice-Pres.; F. T. Lockhart, Secy., all at Augusta, Ga.

ALABAMA.—W. R. Sweeney, of Hopewell, Ala., and Tallapoosa, Ga., a saw mill owner, is reported to contemplate building a new line of railroad from Hopewell northwest to Edwardsville, in Cleburne County, thence south through Clay County to Montgomery, through a rich agricultural section, a distance of about 110 miles.

ALAFIA, MANATEE & GULF COAST.—Company has been incorporated in Florida to build a railroad from Alafia north to connect 30 miles of road owned by the Peace River Mining Co. Company may build to Tampa, about 20 miles northwest of Alafia, and to Gasparilla Island, where the company has terminal property, about 80 miles south of Alafia. James M. Gifford, of New York, is Pres., and L. M. Foutz is Gen. Mgr. The other directors are P. M. Bradley, Pres. Peace River Mining Co.; Robert S. Bradley, Pres. Columbia Trust Co., and John P. Wall, of Tampa, Fla.

ATLANTA, BIRMINGHAM & ATLANTIC.—Company has filed a mortgage to secure $30,000,000, the proceeds of which are to be used to build the extension of the Atlantic & Birmingham Ry. H. M. Atkinson, of Atlanta, is Pres. Alex. Bonnyman is Ch. Engr., at Oglethorpe, Ga.

BURR'S FERRY, BROWNDELL & CHESTER.—This company has filed articles of incorporation in Texas for the purpose of building a railroad from Burr's Ferry, on the Sabine River in Newton County, west through the counties of Newton, Jasper, Sabine, San Augustine and Tyler, to Peach Tree Village, on the Missouri, Kansas & Texas Ry., a distance of 80 miles. The road is intended to connect the lines owned by John H. Kirby, which have been acquired by the Yoakum syndicate, and is to be built on to a connection with the Trinity & Brazos Valley north of Houston. The principal towns on the route are Burkeville, Browndell, Rockland and Chester. Capital stock, $80,000. Incorporators: John H. Kirby, John C. Bonner, J. Randolph Burns and K. H. Cawtron, of Houston; William Wiess and W. C. Averill, of Beaumont; J. W. Link, of Orange; James L. Kirby, of Kountze; E. I. Kellie, of Jasper; and James Irvine, of New York. John H. Kirby, of Houston, Tex., is Pres.

BEAUFORT & WESTERN.—We are advised that this road will be three miles long, extending from Morehead City, N. C., connecting with the Atlantic & North Carolina R. R., to Beaufort, N. C. All surveys are completed and right-of-way secured, as well as capital for construction. The general contract has been let to the GENERAL ENGINEERING & CONTRACTING CO., 15 Whitehall St., New York. Contract for pile driving awarded to the McLANE CONTRACTING CO., Baltimore, Md.; the AMERICAN BRIDGE CO. has contract for draw-spans and steel work. About one-fourth of the bridge work is completed. It will be about 1⅞ miles in length. Fred. L. Merritt is Pres., at Goldsboro, N. C., and Charles Pearson Ch. Engr., at Beaufort.

CHICAGO, MILWAUKEE & ST. PAUL.—The contract for extending this road from Saranac, S. Dak., southeast to Colton, eight miles; and the White River Valley line, from Presho, S. Dak., westward for a distance of 80 miles, has been let by this company to McINTOSH BROS., of Milwaukee, Wis. D. J. Whittemore is Ch. Engr., at Chicago.

CANADIAN PACIFIC.—According to newspaper reports surveys are being made to get a short line from the Aroostook agricultural country and northern New Brunswick to Boston, so as to put the Canadian Pacific in a better position to compete with the Bangor & Aroostook Ry. W. F. Tye is Ch. Engr., Montreal, Que.

CENTRAL OF GEORGIA.—The Henry Ellen branch is to be extended for a distance of 10½ miles to the Tunnel Coal Co. Also from Greenville, Ga., north to Newnan, a distance of 24 miles. The contractors are REDMOND & GABBETT, of Henry Ellen, Ala., and W. J. OLIVER & CO., of Knoxville, Tenn.

CHESTERFIELD & LANCASTER.—Chas. H. Scott, Engr., Ruby, S. C., informs us that work now under way, which was noted in the Engineering News on Jan. 4, is quite light and that all contracts have been awarded.

CINCINNATI, NEW ORLEANS & TEXAS PACIFIC.—We are advised that contract has been awarded to OLIVER BROS. & CALLAWAY, of Knoxville, Tenn., for 30 miles of second track between Flat Rock, Ky., and Helenwood, Tenn. G. B. Nicholson, Ingalls Bldg., Cincinnati, O., is Ch. Engr.

COLORADO.—Channing M. Ward, of Chicago, has submitted a plan to Lamar, Colo., to build a railroad from Lamar to a point on the Missouri Pacific line, possibly at Sugar City. The matter of securing a right-of-way is under consideration.

HOUSTON & TEXAS CENTRAL.—E. F. Hawks, Gen. Supt., Ft. Worth, Tex., according to a report, has stated that this company will enlarge the yards at Fort Worth, doubling the capacity. I. A. Cottingham, Houston, is Engr. M. M., and Structures.

HOLLY, HOLBROOK & BIG BEND.—Contract for building first ten miles of this railroad, which will extend from Swink to Holly, Colo., 85 miles, has been awarded to the HOLLY CONSTRUCTION CO., of Holly. It is said that $1,000,000 will be spent on equipment. W. Howe is Engr. The promoter is W. M. Wiley, of Holly. The American Sugar Beet Co., of Rocky Ford, Colo., announces that it may build a spur to Swink.

IDAHO NORTHERN.—This company has been incorporated in Idaho to build a railroad from Coeur d'Alene, Idaho, to Coeur d'Alene River and Wallace, 50 miles; with a branch to Murray, 35 miles. Capital stock is $2,500,000, with $132,000 subscribed. Headquarters are at Wallace, Idaho. The incorporators are Adam Aulbach, of Murray; F. F. Johnson and B. F. O'Neil, of Wallace; John C. Feehan, Murray; Ely P. Spalding, Murray; Myron A. Folsom, Spokane, Wash.; Walter A. Jones, Wallace.

INDIANAPOLIS & LOUISVILLE.—The contract for building a branch of this road, which is a part of the Chicago, Indianapolis & Louisville Ry., from a point on the main line, near Quincy, Ind., to a connection with the Illinois Central at Victoria, Ind., 50 miles, has been awarded to the L. T. DICKASON CONSTRUCTION CO., Old Colony Bldg., Chicago, Ill., and work is to begin about Feb. 1, it is reported. Lewis W. Parker is Pres., Monadnock Block, Chicago; W. A. Wallace is Ch. Engr., Monon Bldg., Chicago.

LAS VEGAS & TONOPAH.—Surveys are completed and right-of-way and capital are secured for building this railway. Contracts have been let to DEAL BROS. & MENDENHALL, of Springville, Utah, for grading the entire line. About 15 or 20 miles are graded and five miles of track are laid. Company hopes to complete the line by May 1st, laying track at rate of mile a day. It will be 117 miles long, extending from Las Vegas, Nev., to Indian Creek, Gold Center, Bullfrog and Beatty. J. Ross Clark, of Los Angeles, Cal., is Pres., and Arthur Maguire, of Las Vegas, Nev., is Ch. Engr.

MIDWAY & VERNON.—The OKANOGAN CONSTRUCTION CO., 74 Broadway, New York, has contract for building this line, which will be 150 miles long, extending from Midway to Vernon, B. C., via Rock Creek, Westbridge, Beaverdell, Carnie, Mission Valley and Kelowa. The entire line has been surveyed and grading is completed from Midway to Rock Creek, 12 miles. Work will be resumed in the spring. A. A. Arthur is Vice-Pres., at 74 Broadway, New York. Headquarters of company are at Victoria, B. C.

LUMBER CITY & OCONEE.—A charter has been granted this company in Louisiana to build a line 12 miles long from Lumber City, La., eastward toward the Okmulgee River. The incorporators are L. F. Hinson B. B. Cheney, Leroy Napier, E. K. Wilcox, J. A. Doster, C. R. Vaughn, A. A. Darby and S. R. Sikes, of Lumber City; and Urial Sears, J. T. Darby and M. H. Clements, of Montgomery County.

MANGHAM & NORTHEASTERN.—The Mangham & Northeastern Ry. Co., capital $300,000, has been organized for the purpose of constructing a railroad from Mangham, La., to Lake Providence. The officers are: O. A. Wright, Pres.; McClelland Dodge, Vice-Pres.; C. L. Allen, Secy.; J. H. Huntington, Treas.

MINNESOTA, DAKOTA & PACIFIC.—Incorporated in South Dakota to build an extension of the Minneapolis & St. Louis Ry. from Watertown northward, about 150 miles. Capital stock, $200,000. Incorporators: L. F. Day, George W. Seevers, Frederick Wing, of Minneapolis, Minn.; and George W. Case and Walter D. Morris, of Watertown, S. Dak. Survey parties are now in the field.

NEW STATE CENTRAL.—It is reported that a company of this name proposes to build a railroad from Lehigh or Coalgate, Ind. T., via Duncan, to Lawton, Okla., about 200 miles. Robt. Chowning is Pres. and W. H. Hackbush is Ch. Engr., both of Lehigh, Ind. T.

NEVADA NORTHERN.—There has been laid about 25 miles of track of proposed 140 miles on this line, which is being built by the Nevada Consolidated Copper Co., of San Francisco, Cal. C. B. Beatty is Supt. and A. Judell is Ch. Engr. Est. cost, $2,000,000. The line is to extend from Toano, Nev., to Ely.

OREGON EASTERN.—Surveys are in progress from Natron, Ore., to a point in Klawath County, distant about 150 miles. Construction will be begun when these are completed. William Crooks is Pres. and G. W. Boschke is Ch. Engr., at Portland, Ore.

OPELOUSAS, GULF & NORTH EASTERN.—We are informed that the line is located and a large force is at work. The contractors are MYRICK & ANDREWS, of Opelousas, La. The railroad is financed. It is to be completed by July 1, 1903. C. C. Genung is Ch. Engr. and Supt. of Construction, and Thomas H. Lewis is Pres., both at Opelousas. The line will be 57 miles long, extending from Melville to Opelousas, Church Point, Rayne and Crowley, La.

OHIO RIVER & GULF.—Location surveys are made and capital secured for this railroad. Contract for grading will be let in March. A small force is now clearing the right-of-way. R. J. Moscrip, Ch. Engr., at Mayland, Tenn., writes us that this road will open up the "best coal fields in Tennessee and unlimited timber lands." Maximum grade, 1¼%; maximum curvature, 6°; no streams to cross. The railroad will be 32 miles long, from Mayland to Johnson, Clark Range and Jamestown. W. Cooper is Pres., and R. J. Moscrip Ch. Engr. Headquarters are at Mayland, Tenn.

PENNSYLVANIA R. R.—Contracts have been awarded as follows in connection with the completion of the four-track system and the straightening of the lines on the middle division, involving an expenditure of several million dollars. The awards were as follows: Masonry for the bridge across the Juniata River, at Mount Union, and for the masonry, grading and change of line between that point and Newton Hamilton, a distance of nearly three miles, to the DRAKE & STRATTON CO., of Philadelphia; similar work from Newton Hamilton to Vineyard, a distance of about four miles, to P. McMANUS, of Philadelphia; similar work from Vineyard to Ryde, a distance of nearly two miles, to the THOS. McNALLY CO., of Pittsburg; building a stone arch bridge across the Juniata River at Ryde, to SPARKS & EVANS, of Philadelphia. The work consists of the following: Mt. Union bridge, 60,000 cu. yds.; Ryde bridge, 40,000 cu. yds.; Mt. Union grading, 1,000,000 cu. yds.; Newton Hamilton grading, 350,000 cu. yds.; Ryde grading, 250,000 cu. yds.

SUGAR CREEK & NORTHERN.—Company has been incorporated in Ohio to build a railroad from Bolivar to Lorain, O. Capital is $10,000. The incorporators are R. F. Denison, W. B. Whitney, C. T. Brooks, G. F. Goss, and F. S. Whitcomb, of Massillon, O.

TIDEWATER R. R.—The contract for the construction of 13 miles of the Tidewater Railroad, directly west of Roanoke, Va., through Roanoke County and west of Salem, has been let by McArthur Bros. to JERRY CONNELLY. His bid was $200,000. A contract was awarded by McArthur Bros. for 16 miles still farther westward to DOUGLAS BROS., of Pittsburg, at an estimated bid of $150,000. See notice in Engineering News on Dec. 28.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

VERGENNES, VT.—At a recent local meeting a proposition from R. W. McCuen to organize a company to build an electric railway from Vergennes to Fairhaven, N. Y., was taken up and adopted.

BROOKLYN, N. Y.—F. B. Behr, Pres. of the Behr Monorail Co., 82 Beaver St., Manhattan, has applied for permission to the Rapid Transit Commission to construct a monorail line from Flatbush and Atlantic Aves., Brooklyn, to Coney Island.

TRENTON, N. J.—The Trenton, Lakewood & Atlantic Ry. Co. has executed a mortgage for $2,500,000 to cover an issue of bonds by which it is proposed to raise money to complete the trolley line between this city and Point Pleasant. Wm. H. Martin is Vice-Pres., at Frenchtown, N. J.

NORMA, N. J.—L. Coney, of Norma, is interested in plan to build a trolley line to Vineland, Rosenhayn, Carmel and Bridgetown.

WILMINGTON, DEL.—Preliminary work has been started toward construction of the Kent County & Delaware Bay Traction Co.'s line in Kent County. U. G. Glick, Wilmington, is Pres.

BALTIMORE, MD.—If the ordinances now before the city council are passed at an early date the Washington, Baltimore & Annapolis Electric Ry. Co. plans to have cars running to Washington by the spring of 1907. Geo. T. Bishop is Pres. It will cost $5,000,000 to build the railway.

WASHINGTON, D. C.—The District Commissioners have reported favorably on the amended bill which authorizes extensions of street car lines of the City & Suburban Ry.

FAYETTE, W. VA.—We are advised that contracts will be let about April 1, 1906, for building the Fayette & Fayetteville Ry. from Fayette to Fayetteville, Oakhill, Glen Jean and Beckley, 30 miles. Morris Harvey, Fayetteville, W. Va., is Pres., and Philip Konrad, Kanawha Falls, W. Va., is Ch. Engr. Surveys are partly made and some right-of-way is being condemned. Noted last week.

MORGANTOWN, W. VA.—The Morgantown & Dunkard Valley Electric R. R. Co. is receiving estimates on electrical equipment for a new line about 35 miles long. Company is also seeking a franchise to use the streets of the city. D. C. Hoffman and W. W. Smith are the leading promoters. Noted on Dec. 21.

The Sabraton Street Railway Co. is operating a 3-mile line from the edge of the city to Sabraton, and is now asking a franchise to use the streets of the city.

SISTERSVILLE, W. VA.—E. L. Benton is Engr.-in-Charge of construction of the Parkersburg & Ohio Valley Electric Ry. JOHN SHRADER, of Chester, W. Va., is contractor. P. H. Anderson, of Friendly, W. Va., is now handling construction, as agent for Mr. Shrader. V. B. Archer is Pres. and C. L. Williams is Secy. and Treas. of the railway company, with headquarters at Parkersburg, W. Va.

ATLANTA, GA.—The Georgia Railway & Electric Co. may extend its line on Peachtree Road from Brookwood to Buckhead, ten miles from Atlanta. The roadway will be widened 30 ft., making it 80 ft. wide. Work is expected to begin soon. Thomas K. Glenn is Mgr., at Atlanta.

CHATTANOOGA, TENN.—Work on improvements to cost $15,000 will be started at once by the Chattanooga Electric Railway Co., according to "Pink Sheet Bulletin," and before the summer business begins much new equipment will be in service, the car barns will be rebuilt and extensive repair, woodworking and machine shops added. Nearly all the old track of the company will be relaid and the system will soon be in first-class condition.

LOUISVILLE, KY.—According to semi-official announcement, improvements and extensions, involving the expenditure of not less than $750,000, and possibly $1,000,000, are to be made by the officers and directors of the Louisville Ry. Co. this year. At the meeting of the directors, to be held next month, plans will be matured for expending this sum for the extension of the system. T. J. Minary is Pres. and Gen. Mgr., at Louisville. C. L. Christopher is Supt. Construction.

OWINGSVILLE, KY.—A. W. Morrison, of Montreal, Que., and E. B. Carr, of Philadelphia, who are representing eastern capitalists, with Wm. A. Young, of Morehead, Ky., have been granted franchises to build an electric road 23 miles in length in this county. The road will run from Preston Station to Owingsville, thence to Sharpsburg, 12 miles, and from there to the Montgomery county line. Extensions may be also built to Mt. Sterling and Carlisle.

KALAMAZOO, MICH.—The [illegible] Elkhart & South Bend Ry. Co. [illegible] electric railway between [illegible] tioned. It is reported that [illegible] preliminary work has been [illegible] are very good prospects for [illegible] ing of the road. The com[illegible] porated in Michigan and Indi[illegible] are: A. D. Harris, Pres.; [illegible] Vice-Pres.; Edward C. Vince[illegible] Hunsberger, Treas.; John A. [illegible] tor, all of South Bend, Ind. [illegible] cent has stated that "The li[illegible] will run from Kalamazoo [illegible] thence to Parkville and Thr[illegible] stantine, Mottville, Union, [illegible] South Bend, and we may p[illegible] Vicksburg to Centerville and [illegible] Rivers. The road is intende[illegible] necting link between line[illegible] points in Michigan from K[illegible] from South Bend to points [illegible] will use our own private r[illegible] will be equipped to give the [illegible] fastest time."

DETROIT, MICH.—The [illegible] has adopted a resolution requ[illegible] sioner of Works Haarer and [illegible] Parks Bolger to include in [illegible] mates, appropriations sufficie[illegible] a trackless trolley system are[illegible] and over bridge. A. S. Hatl[illegible] mates cost of entire equipm[illegible] cars, overhead equipment and [illegible] at about $52,000. When the [illegible] of the two departments have [illegible] estimates, the appropriations [illegible] regularly before the council a[illegible] before the Board of Estimates.

CHICAGO, ILL.—Alderman [illegible] has offered a resolution in the [illegible] requiring the Illinois Central Railroad to change its motive power on suburban trains from steam to electricity.

MATTOON, ILL.—We are advised that A. M. Shaw, Room 12, Courthouse Bldg., Dixon, Ill., will be in the market about May, 1906, for equipment for the Decatur, Sullivan & Mattoon Transit Co.'s line from this point to Decatur, Ill., but in the meantime would like to correspond with dealers regarding prices of equipment for use in getting out his preliminary estimate, also would be willing to assist him in getting out these preliminary estimates of the electrical equipment for the advantage that they might derive later.

BIWABIK, MINN.—F. B. Myers, Cashier of the Biwabik State Bank, is promoting an electric railway from this place to Hibbing, via McKinley, Elba, Sparta, Eveleth, Virginia, Iron Mountain, Buhl and Chisholm. The company that will undertake the work will be known as the Missabe Range Traction Co. The length will be about 40 miles. Estimated cost is $700,000.

DALLAS, TEX.—It is reported that the Dallas Consolidated Electric Street Ry. Co. has appropriated $325,000 for improvements to the lines and equipment. E. T. Moore is Gen. Supt.

CHICKASHA, IND. T.—The Washita Interurban Ry. Co. has presented a proposition to Chickasha to establish a division point and general shops here. The line is to extend from Anadarko to Shreveport, La. W. L. Fairchild, Consulting Engr., states that surveying work is progressing rapidly, 25 miles of the survey being already completed.

LEADVILLE, COLO.—Col. Jas. A. Shinn, of Leadville, is said to be interested in a plan to build an electric railway to connect Leadville with Twin Lake and the Horseshoe district.

PETALUMA, CAL.—The Petaluma & Santa Rosa Railway Co.'s surveyors have run lines for an extension from Santa Rosa to Healdsburg through Dry Creek Valley. This, and several other branch lines, will be completed during 1906. It is expected a new line running south to connect Petaluma with San Francisco Bay points will be decided upon in the near future. E. E. Dourne is Gen. Mgr. and Pur. Agt., at Petaluma.

RICHMOND, CAL.—The East Shore & Suburban Ry., which connects Oakland and Richmond, may be extended from San Pablo to Martinez. W. S. Rheem is Gen. Mgr., at Richmond.

BUENA VISTA, CAL.—W. H. Davis, City Clk., is promoting a plan, according to press report, to construct an electric railway into the Taylor Park district. County Commissioners have approved the project.

DOWNEY, CAL.—The Downey Rapid Transit Co. has been organized to build and operate a 6-mile single-track, standard-gage electric railway between Clearwater and Downey. The promoter is Charles La Force, Mayor of Tacoma, Wash. Right-of-way is to be donated.

SALT LAKE CITY, UTAH.—A press report states that the Salt Lake & Ogden Ry. is to be electrified, probably by May 30, 1906. S. Bambeger is Pres. and Gen. Mgr., at Salt Lake City. Company operates about 25 miles of line.

ST. CATHARINES, ONT.—The Niagara, St. Catharines & Toronto Ry. Co. is seeking authority from Parliament to make the following extension: From Thorold to Port Colborne; Fort Erie to Niagara Falls; from Niagara Falls to Niagara-on-the-Lake; from Niagara Falls, Thorold or Welland to Brantford, from St. Catharines to Niagara-on-the-Lake. E. F. Seixas is Gen. Mgr.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—On Jan. 11 the Secretary of the Treasury transmitted to Congress an estimate of appropriations aggregating $145,000 for the lighting of Ambrose Channel, in the lower New York Bay. He asks from Congress $80,000 for the establishment of a lightship at the sea entrance, $125,000 for the construction of a lighthouse at the intersection of the axis of the east channel and its west edge, $15,000 for the establishment of a tank lightship at the junction of

the east and main channels, $20,000 for the construction of a stone beacon with gas illumination on Craven Shoals, $43,200 for four gas buoys, $33,500 for raising Romer Shoal and West Bank lights 15 ft., and $43,500 for contingencies.

CAMDEN, N. J.—Council has taken up matter of providing Camden with a municipal lighting plant.

PHILADELPHIA, PA.—The Philadelphia & Reading Coal & Iron Co. has made surveys for electrical power plant at the West Shenandoah colliery.

DELAWARE CITY, DEL.—The DELAWARE WATER IMPROVEMENT CO., of Wilmington, has been awarded 10-year contract for lighting Fort Du Pont, Del.

BALTIMORE, MD.—The following contracts were awarded for supplies for the Electrical Commission: Stone, A. D. LEONARD; sand, AMERICAN SAND & STONE CO.; brick, BALTIMORE BRICK CO.; lumber, THOS. MATTHEWS & SONS; cement, GEO. M. HAY and NATIONAL BUILDING SUPPLY CO. For the Water-Works Board contracts were awarded to the BALTIMORE BRICK CO. for brick and to the CROWN OIL & WAX CO. and the SUN CO., for oils. The contract for wrought iron pipe has been given to the CRANE CO.

WASHINGTON, D. C.—Bids are asked until 10 a. m., Jan. 30, for furnishing and installing a quantity of electrical apparatus at the U. S. Naval Hospital. H. T. B. Harris, Paymaster Gen., U. S. Navy.

MORGANTOWN, W. VA.—This city is considering the erection of a municipal electric lighting plant. A special election will be held to vote on the question of issuing bonds.

MARIETTA, GA.—See under Water Supply.

SELMA, ALA.—See under Water Supply.

NEWTON, MISS.—Kirkpatrick & Johnson, Jackson, Miss., have been engaged to design extensions in the electric light system, comprising engine, direct-current outfit and pole lines.

NEW ORLEANS, LA.—It is reported that the Consumers' Electric Co., of New Orleans, is completing arrangements for the erection of a new $40,000 power-house.

WEST TERRE HAUTE, IND.—The West Terre Haute Water-Works Co. will erect a new $50,000 lighting plant and $60,000 water-works plant. Bids are being received.

RICHMOND, IND.—The Board of Works will install new equipment at the municipal electric light and power plant. C. H. Rogers is Supt.

PONTIAC, MICH.—The Clinton River water power development, which was started last year, and then discontinued, has been revived by new interests entering into the organization. H. von Schon, C. E., of Detroit, Mich., has been retained as Consult. Engr.

PORT HURON, MICH.—In connection with the item about electrification of the St. Clair tunnel, noted in Engineering News on Jan. 4, the Pittsburg "Times" states that the WESTINGHOUSE ELECTRIC & MFG. CO., of Pittsburg, has been awarded the contract by the Grand Trunk Ry. Co., of Montreal, Que. The contract calls for the electrification of a railroad in the Sarnia tunnel, under the St. Clair River, which is the connecting link of the company's tracks between Port Huron, Mich., and Sarnia, Ont. The apparatus for equipping the road will cost over $100,000. The contract calls for six 1,000 HP. alternating current single phase electric locomotives, the electric power station equipment, electric lighting plant and all additionally required station and track apparatus.

CHILLICOTHE, ILL.—The Chillicothe Water, Light & Power Co. has been incorporated here with capital of $75,000. W. K. Foster is interested.

MINNEAPOLIS, MINN.—The Pillsbury-Washburn Flour Co. will establish an immense electric plant in the St. Anthony Falls district, the work to be done under the supervision of William de la Barre, Ch. Engr. The new plant is expected to develop 6,000 HP., and will be completed by January, 1907.

ROYALTON, MINN.—The owners of the Watab Rapids Power Co. are securing flowage rights on the Mississippi River a few miles north of this village and will soon commence the construction of a dam to cost in the neighborhood of $1,000,000.

LIBBY, MONT.—The Montana Miners' Electric Railway & Power Co. has been incorporated with a capital stock of $150,000. A. J. McCorkle, of this city, is interested.

VAN BUREN, ARK.—The council has granted a franchise to the Van Buren Gas Co. to supply the city with gas for domestic and manufacturing purposes.

HOUSTON, TEX.—The Houston Lighting & Power Co. has been incorporated, with capital stock of $1,000,000, for the purpose of the manufacture and sale of gas and electric light. The incorporators are A. H. Ford, of New York; J. W. Terry, of Galveston, and Robert Duerer, of this city.

BROWNWOOD, TEX.—The Brownwood Gas Co. has been incorporated, with capital of $60,000. The officers are: J. R. Looney, Pres.; H. C. Bancroft, vice-Pres. and Gen. Mgr.; Brook Smith, Treas.; T. D. Lyon, Secy., and these officers, with I. J. Rice, form the board of directors.

TULSA, IND. T.—The Tulsa Gas Co. has been incorporated for $50,000 with the following officers: C. G. Stebbins, Tulsa, Pres.; J. C. Eddy, Oswego, Kan., vice-Pres.; W. H. Lumpkin, Coweta, Secy.; R. O. Deming, Tulsa, Treas. The company has purchased the well on the Hodge property east of the city and controls a number of valuable leases. It proposes operating in Tulsa and neighboring towns. A franchise will be asked of the council here in a short time.

DURANGO, COLO.—It is stated that the Animas Water & Power Co. will build new concrete dam, 100 ft. in height and 1,400 ft. in length, just below the present structure. This dam will retain 3,500,000 cu. ft. of water, which will cover 1,160 acres of land. In addition to this, there will be another dam built which will retain 2,000,000,000 cu. ft. of water; $3,000,000 will be expended.

DENVER, COLO.—Henry I. Seaman, Pres. of the Continental Mines, Power & Reduction Co., Denver, Colo., writes us that surveys for a pipe line have been made and that contracts for pipe, dynamos, etc., will be let early next spring.

BOULDER, COLO.—H. D. McCutcheon, of Pittsburg, Pa., has applied for a franchise for a power plant to be operated in connection with city water supply.

GEORGETOWN, COLO.—The East Argentine Mining Co. has secured over 300 acres of land located within two miles of Kremmling, and work on a big dam will soon be started. This dam will be 100 ft. in height and when completed will have a storage capacity of 4,000,000 cu. ft. of water. F. A. Maxwell, Engr., has reported that the company will be able to produce, as soon as the reservoir has been completed, 4,000 HP. It is estimated that the entire cost of generating the electricity and the erection of the necessary buildings will exceed $125,000. H. J. Crist is Pres.

OLYMPIA, WASH.—John L. Murray, of this city, has applied to council for franchise to construct poles, lines, wires, pipes and conduits for transmission of light, heat and power and electric current for any purpose, also steam. It is understood that plant will cost about $10,000.

WALLA WALLA, WASH.—The Northwestern Gas & Eelctric Co. will spend $10,000 within the next few months in this city replacing the present distributing system with new high power wires. Other improvements are also planned.

VANCOUVER, WASH.—J. R. Harvey, Mgr., of the Vancouver Electric Light and Power Co., has stated that the entire stock of the corporation has been sold to H. W. Goode, of Portland, at about $200,000. He also states that he is informed by Mr. Goode that about $50,000 will be spent in improvements during the present year.

ROOSEVELT, ARIZ.—The Secretary of the Interior has approved the bond and executed a contract with the GENERAL ELECTRIC CO., of Schenectady, N. Y., for furnishing electrical apparatus for use in the Roosevelt power house, Salt River project, Arizona. The contract calls for installation of machinery to cost $39,152.

WINNIPEG, MAN.—Bids are asked until 3.30 p. m., Feb. 12, for street-lighting system supplies. Bids are also asked until Feb. 12 for supplying two 500-HP. electric generators. C. J. Brown, City Clk. F. A. Cambridge, City Electrician. (Advertised, Engineering News.)

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

PROVIDENCE, R. I.—According to the plans submitted by Charles W. Lippitt, Engr., of this city, a new bridge will be built across South Main St., to a point about halfway to Benefit St.

LONG ISLAND CITY, N. Y.—It is reported that a new trolley bridge, costing about $175,000, is to be built by this city across Dutch Kills Creek, at Borden Ave.

TRENTON, N. J.—It is reported that three new bridges will be built across the Delaware and Raritan canal here.

NEWARK, N. J.—It is reported that the Boards of Freeholders of Essex and Hudson Counties are considering the erection of a new $150,000 bridge at Clay St. Jas. Owen, 196 Market St., Newark, is Engr.

HARRISBURG, PA.—Bids are asked by J. W. Hunter, Comr., State Highway Dept., until noon, Feb. 1, for constructing a reinforced concrete bridge across Coon Island Creek, at Vienna Station. Bids are asked also for a reinforced concrete bridge on Natural road, about 300 ft. east of Uniontown Boro., Fayette County.

JOHNSTOWN, PA.—It is reported that the Pennsylvania Railroad Co. and this city will erect a new overhead bridge at Station St. George E. Hamilton is City Clk. W. H. Brown, Philadelphia, Pa., is Ch. Engr.

LEWISBURG, PA.—The contract for erecting the bridge at this place was awarded to the OSWEGO BRIDGE CO., of Oswego, N. Y., for $124,580.

CATAWISSA, PA.—The contract for the concrete foundations for the new bridge across the Susquehanna River was awarded to J. B. WAIDELICH, of Allentown, Pa.

ALTOONA, PA.—It is reported that extensive repairs are to be made on the bridge at Seventh St. in this city. Mayor S. H. Walker is interested.

DARBY, PA.—An ordinance has been introduced in the council for the construction of a new bridge at 58th St. for the Baltimore & Washington Railroad Co. W. H. Brown, Philadelphia, Pa., is Ch. Engr. E. R. Franklin is Boro. Secy.

UNIONTOWN, PA.—It is reported that the Uniontown & Wheeling Short Line Railroad Co. will erect a bridge across the Monongahela River at McCann's ferry. The bridge will be of steel, 1,300 ft. long, with a channel span of 424 ft. and a clearance of 72 ft. J. V. Thompson is Chn. D. F. Maroney is Pres.

PHILADELPHIA, PA.—Bids are asked by Bureau of Surveys, Dept. Public Works, until noon, Feb. 14, on schedule A, for bridges. A. Lincoln Acker, Dir. (Advertised, Engineering News.)

ATLANTA, GA.—It is reported that a new iron bridge will be erected at Lakewood Ave., this city, by the Georgia Railway & Electric Co. The new bridge will be wide enough to allow for pedestrians, wagons and cars.

BIRMINGHAM, ALA.—The Commissioners of Jefferson County are locating the site of the new $20,000 bridge across the Warrior River at this place. Julian Kendrick is City Engr.

MORGAN CITY, LA.—It is reported that a new steel bridge will be erected across the Atchafalaya River at this place. Cost will be about $300,000.

COLFAX, LA.—An appropriation of $5,500 has been voted for the construction of a bridge across Bayou Darro, at this place. William Lecroix is Parish Treas.

BROOKHAVEN, MISS.—The contract for the erection of the steel bridge across Fair River, on the Brookhaven road, was awarded to E. P. ALSBERRY & SON, Fort Worth, Tex.

NASHVILLE, TENN.—The county court of Davidson County will build a $300,000 bridge across the Cumberland River at this place. The plan to build proposed bridge at the foot of Broad St. was defeated. W. W. Southgate is City Engr.

CHATTANOOGA, TENN.—An extension of time has been granted for the opening of bids for the construction of the Eleventh St. bridge until Jan. 30. Some necessary changes in the plans will necessitate new figures. The new plans call for a plate girder skew bridge, which will be the full width of the street. The former plans were for a steel truss structure with paved roadways and sidewalks. Robert Hooke is City Engr.

KNOXVILLE, TENN.—Plans are in progress for a new bridge across First Creek for the new extension of the Knoxville Railway & Light Co. J. F. Kelly, Knoxville, Tenn., is Engr.

HENDERSON, KY.—It is reported that the Chicago, St. Louis & New Orleans Railroad Co. will erect another bridge across the Ohio River, near Towhead Island.

CLEVELAND, O.—It is reported that the National Malleable Casting Co., of this city, will erect a new bridge across Platt St.

CINCINNATI, O.—It is reported that extensive repairs are contemplated on the Liberty St. viaduct. J. E. Breen is City Engr.

It is reported that Mayor Fleischman has signed an ordinance providing for $425,000 for the construction of a viaduct at Harrison Ave., Cincinnati.

HUNTINGTON, IND.—The contract for constructing a 2-span bridge across the Wabash River at White Church, was awarded to the CHAMPION BRIDGE CO., of Wilmington, O., for $7,635.

PEORIA, ILL.—The contract for the erection of the bridge across Lost Creek was awarded to the SMITH CONSTRUCTION CO., of Tremont, Ill.

It is reported that the Chicago & Alton Railroad Co. contemplates the erection of a new steel bridge near here. C. A. Goodnow, Railway Exchange Bldg., Chicago, Ill., is Gen. Mgr. George H. Kimbal, Railway Exchange Bldg., Chicago, is Ch. Engr.

CHICAGO, ILL.—It is reported that plans are in progress for twelve new bridges for this city. This will necessitate an expenditure of about $3,000,000, of which about $1,000,000 will be spent this year. Four of the proposed bridges are to be fixed spans, as they will cross unnavigable water. There is to be one double-deck bridge at Kinzie St., near the depot. This bridge will allow the passage of cars on one level and wagons and pedestrians on another. A $300,000 structure will be erected at North Halsted St. J. M. Patterson is Comr. Pub Works.

OAKDALE, ILL.—It is reported that a new bridge across the Embarras River is contemplated.

MILWAUKEE, WIS.—It is reported that a 3-span bridge may be erected in connection with the proposed extension of the Highland Boulevard. C. J. Poetsch, Milwaukee, is City Engr.

MANITOWOC, WIS.—The following bids were opened for the construction of the proposed Tenth St. bridge at this place: Milwaukee Bridge Co., Milwaukee, Wis., $79,800; Toledo Bridge Co., Toledo, O., $93,000; Stroeble Steel Co., Chicago, Ill., $79,913; Scherzer Co., of Chicago, Ill., $82,000.

DES MOINES, IA.—George D. Dobson, Engr., of this city, has been appointed to draw plans for the Locust St. bridge in this city. The new bridge will be of reinforced concrete, the same width as the street. There will be five spans; the middle span will be 90 ft., the next two spans will each be 80 ft., and the remaining two spans each 70 ft.

ZIM, MINN.—The contract for erecting the bridge across the St. Louis River at this place was awarded to DARST & HUGHES, of Chicago, Ill., for $3,499.

ST. PAUL, MINN.—The bill providing for the erection of a $250,000 bridge connecting this city with Fort Snelling has been indorsed. Of this cost the government will pay half and the city of St. Paul and the traction companies the remaining half. Representative Stevens, of this city, is interested. C. E. Rundlett is City Engr.

OLATHE, KAN.—Plans have been completed for the proposed 145-ft. viaduct at Cedar St.

ABERDEEN, S. DAK.—It is reported that the County Commissioners of Brown County have decided to erect ten bridges over various streams in this county. The largest structure will be a 300-ft. bridge across the James River.

EVARTS, S. DAK.—Gilborne Bros., of Aberdeen, S. Dak., have been appointed to make soundings for the proposed bridge for the Chicago, Milwaukee & St. Paul Railroad Co. at this place.

TEMPLE, TEX.—There is a movement on foot for the erection of viaducts at First and Main Sts. in this city. Address Board of Aldermen.

ST. LOUIS, MO.—It is reported that extensive improvements are contemplated on the land lying west of De Baliviere Ave., north of Forest Park, this city. The proposed plan is to build a concrete arch over the Des Peres River at Delmar Ave. This arch is to be about 15 x 43 ft., with a total distance of 2,730 ft. Cost will probably be $341,250. Julius Pitzman, St. Louis, Mo., is Engr.

HANNIBAL, MO.—It is reported that the Chicago, Burlington & Quincy Railway Co. will make extensive alterations on its bridge here. I. S. P. Weeks, Lincoln, Neb., is Engr.

SEATTLE, WASH.—The contract for the erection of eight bridges for the North Yakima & Valley Railroad Co. was awarded to the INTERNATIONAL CONTRACT CO., Seattle, Wash.

COLVILLE, WASH.—The following bids were opened for the construction of the Howe truss bridge across the Kettle River at this place: Bryan & Acorn, Colville, Wash., $6,230; C. A. Conant, Spokane, Wash., $5,993.

PEMBROKE, ONT.—Plans are out for bids for constructing a steel bridge across Madawaska River in McNab township. James H. Smith, Pembroke, Ont., is Engr.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

HOLYOKE, MASS.—Bids are asked by the Armory Board until 9 a. m., Feb. 16, for the general construction of an armory for Co. D, on Pine and Sargent Sts., Holyoke, Mass. The building will be of brick, granite and limestone, 82 x 158 ft. The trim will be selected white oak, iron truss beams and grill work. Roof will be slate and gravel. W. J. Howes, 235 High St., Holyoke, Mass., is Arch.

BOSTON, MASS.—Mayor John F. Fitzgerald, of this city, is agitating the question of erecting the $1,500,000 hospital here.

QUINCY, MASS.—The contract for additions and alterations to the High School building here was awarded to RUFUS E. LORD, 40 State St., Boston, Mass., for $110,500. A. H. Gould, 17 Milk St., Boston, is Arch.

BOSTON, MASS.—The contract for constructing the building on Water and Congress Sts., Boston, for the National Shawmut Bank, was awarded to L. P. SOULE & CO., 166 Devonshire St., Boston. Cost, $300,000. Winslow & Bigelow, 120 Tremont St., Boston, are Archs.

The contract for erecting the new building on Berkley St., Boston, for the Warren Chambers Trust Co., was awarded to the FOSBURG CO., 6 Beacon St., Boston. Cost, $150,000. Wheelwright & Haven, 100 Boylston St., Boston, are Archs.

NEWPORT, R. I.—A charter has been granted for the erection of a home for aged men and women in this city for Nina Circle of King's Daughters.

NEW HAVEN, CONN.—The contract for the structural steel for the Yale Library was awarded to LEVERING & GARRIGUES, 552 West 23d St., New York.

NORWALK, CONN.—It is reported that the Episcopal congregation of this city contemplates the erection of an $80,000 church here. Rev. Weymes Smith is Pastor.

NEW YORK, N. Y.—Plans have been completed for the Phipps apartment houses on 63d St. and West End Ave., New York. Whiting & King, 160 5th Ave., New York, are Archs.

It is reported that two elevator apartment houses will be erected at 141st St. and Broadway, New York, by the Levy-Weinstein Realty Co., 18 West 4th St., New York.

The Fleischman Realty Co., 170 Broadway, New York, will construct five 6-story apartment houses on 145th and 146th Sts., New York. O. Lowinson, 18 East 42d St., New York, is Arch. Cost, $200,000.

All previous records for building in New York City were eclipsed in 1905 by about 50%. The Borough of Manhattan shows building operations for the year ending Dec. 31 amounting to $139,077,416. This compares with former years as follows: 1901, $65,488,168; 1902, $89,882,778; 1903, $86,502,231; 1904, $84,172,185.

NEW YORK, N. Y.—The general contract for constructing the garage at 62d St. and Broadway for George C. Bolt, Hotel Waldorf-Astoria, New York, was awarded to the GENERAL SUPPLY & CONSTRUCTION Co., 24 State St., New York.

Plans are in progress for a new 13-story apartment house at 57th St. and Park Ave., New York, for Henry C. Tinker, 48 East 57th St. Brick, stone and terra cotta, 90 x 100 ft. Cost, $400,000. Charles A. Rich, 320 5th Ave., New York, is Arch.

It is reported that a skyscraper will be erected on the block bounded by Broadway, Nassau, Cedar and Pine Sts., New York, by the Equitable Life Assurance Society, 120 Broadway, New York.

Plans are in progress for extensive alterations to the Aldrich Court Bldg., 45 Broadway, New York, for the Hamburg-American Steamship Co. De Lemos & Cordes and R. L. Dans, 130 Fulton St., New York, are Archs.

NEW YORK, N. Y.—No definite plans have been formed for the erection of the hospital provided for in the will of the late Charles T. Yerkes. It is reported that the hospital complete will cost about $800,000.

Bids are asked by Moses Herrman, Pres., Board of Parks, until 3 p. m., Jan. 25, for plumbing and heating work in the Jumel mansion, at 160th St. and Jumel Place, New York.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Fire Comr., until 10:30 a. m., Jan. 23, for construction of additions and alterations to engine house at 437 East Houston St., Boro. of Manhattan.

The question of a chain of municipal hospitals is now being considered by Mayor George B. McClellan. The plan is for the development of a central system of hospitals in the five boroughs, the architecture to be uniform, the service to be organized on a scheme of unity and all under the control of one department of the city government. An estimate of $75,000,000 is made for the cost.

Plans are in progress for several new sub-stations and many additions to the present buildings of the New York Edison Co., 55 Duane St., New York. New sub-stations will be erected on 36th St. between Park

and Lexington Aves., on Water St., on West 60th St., an addition to the present building at 115 West 39th St., an addition to the building on 129th St., and an addition to the building on 190th St. and Rider Ave. The buildings are to be fireproof, brick, stone and steel. T. E. Murray, 55 Duane St., New York, is Engr.

NEW YORK, N. Y.—Bids are asked by F. J. Lantry, Comr. Dept. Correction, 148 East 20th St., New York, until 11 a. m., Jan. 30, for installing heating coils in the proposed new store and sewing room at the workhouse, Blackwell's Island, New York. Bids are also asked for the alterations and additions to the steam plant at the penitentiary, Blackwell's Island, New York.

BROOKLYN, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., until 3 p. m., Jan. 22, for sanitary work and gas fitting at Public School No. 66, on Watkins and Osborne Sts., Boro. of Brooklyn. Bids are also asked for the general construction of additions to Public School No. 83, on Schenectady Ave., Boro. of Brooklyn.

Bids were opened Jan. 15 by C. B. J. Snyder, Supt. School Bldgs, for the general construction of additions and alterations to Public School No. 60, on Union Place, Boro. of Queens, as follows: Joseph Ohlhausen, $77,982; James MacArthur, 22 Ormond Place, Brooklyn, $82,695; Wm. Werner, 892½ Forest Ave., New York, $86,844; T. Cockerill & Son, 147 Columbus Ave., New York, $103,400.

BROOKLYN, N. Y.—Bids were opened Jan. 15 by C. B. J. Snyder, Supt. School Bldgs., for general construction of Public School No. 121, on 103d St., near 2d Ave., Boro. of Manhattan, as follows: H. Berry & Co., $96,635; A. Nugent & Son, 103 East 125th St., New York, $98,900; P. J. Walsh, 503 5th Ave., New York, $102,698; T. Cockerill & Son, 147 Columbus Ave., $103,400; Thomas McKeown, 521 West 110th St., New York, $103,843; Guidoni & Galardi, 1 Madison Ave., New York, $104,300; George Hilderbrand, 38 Park Row, $104,892; P. J. Brennan & Son, 1931 Broadway, New York, $105,000; William Warner, 892½ Forest Ave., New York, $105,819; D. J. Ryan, 723 3d Ave., Brooklyn, $105,987; P. Sullivan, 230 Grand St., New York, $108,400; F. Sullivan, 103 East 125th St., New York, $114,000; E. D. Broderick, 1 Madison Ave., $114,000.

Plans are completed for the erection of a new church on South Chase Ave., Rockaway Beach, for the Church of St. Rose of Lima. Cost, $50,000. John W. Ingle, 109 West 42d St., New York, is Arch.

FLUSHING, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., until 3 p. m., Jan. 22, for heating and ventilating appratus in Public School No. 20, Boro. of Queens.

ALBANY, N. Y.—Bids are being received by Ernest Hoffman, Arch., 3 North Pearl St., Albany, N. Y., for the construction of a 6-story store and office building for the Bacon & Stickney Co., 37 Dean St., Albany, at 652-660 Broadway, Albany. Size, 45 × 100 ft.

M. B. Foster Electric Co., Fuller Bldg., New York, submitted the lowest bid for rewiring at General Islip State Hospital, Albany, N. Y., for $1,630.

SYRACUSE, N. Y.—The plans for the new armory in this city will be completed and ready for bids within three weeks. The building will be 190 × 302 ft. G. L. Heins, is State Arch.

Archimedes Russell, 321 The Bastable, Syracuse, has been appointed to draw plans for the new school here. The cost will be about $200,000.

MIDDLETOWN, N. Y.—The contract for the electrical work on the new State hospital here has been awarded to the PREMIER ELECTRIC Co., of Troy, N. Y.

ORANGE, N. J.—Plans have been completed for a 3-story brick school building, 100 × 150 ft., to be built here. Herbert D. Hale, 92 William St., New York, is Arch. Fred T. Crane is City Engr. W. B. Gans is City Clk.

HACKENSACK, N. J.—A site has been selected for the new 16-room school building here. The plot has a frontage of 300 ft. on Palisades Ave., extending through to Walker St. Cost of building will be about $60,000.

PHILADELPHIA, PA.—It is reported that plans are in progress for a new Y. M. C. A. building, on Arch St., Philadelphia. The new building will cost about $500,000.

Approximate figures have been taken for an apartment house on Juniper and Spruce Sts., Philadelphia. The new building will be eight stories, of brick, stone and marble, 40 × 127 ft. McIlvain & Roberts, 1517 Land Title Annex Bldg., Philadelphia, are Archs. Cost, $100,000.

YORK, PA.—It is reported that extensive alterations will be made to the jail here. Cost, $65,000.

SCRANTON, PA.—It is reported that Martin Maloney, of Philadelphia, Pa., will erect a new 14-story office building at Mulberry St. and Washington Ave., Scranton. Cost, $250,000.

WILKES-BARRE, PA.—W. G. Sahve, of this place, is reported to be at the head of a movement to erect a new school building for the education of Poles. Cost $50,000.

Plans are being prepared for a new stone and steel, fireproof building for the First National Bank. Cost, $125,000. A. H. Kipp, Coal Exchange Bldg., Wilkes-Barre, Pa., is Arch.

NORRISTOWN, PA.—Plans have been accepted for a new convalescent building for the Norristown Insane Hospital. The new building will be 50 × 230 ft. Cost, $50,000.

PITTSBURG, PA.—Plans are in progress for the new Emory Methodist Episcopal Church on Ripley St., Pittsburg. Cost, $150,000. Charles W. Bier, Smith Bldg., Pittsburg, is Arch. George B. Kelly, South Highland Ave., is Chn. Com.

DELAWARE CITY, DEL.—Bids are asked until 10.30 a. m., Feb. 6, by Capt. Louis F. Garrard, Jr., Q. M., for constructing veranda around ward of hospital at Fort Mott, N. J. (Advertised, Engineering News.)

WASHINGTON, D. C.—Plans are in progress for a new car barn for the Capitol Traction Co. The building will be fireproof, brick, stone and steel. Cost, $100,000. Wood, Donn & Deming, 808 17th St., N. W., Washington, are Archs.

WASHINGTON, D. C.—Bids are asked by James Knox Taylor, Supervising Arch., Treas. Dept., Washington, D. C., until 3 p. m., Jan. 29, for the construction of stone wall and completion of approaches of the West Out Bldg., Bureau of Engraving and Printing, Washington, D. C.

Bids are asked until noon, Feb. 3, for furnishing and delivering basement windows and door frames at U. S. Soldiers' Home, John Stephen Sewell, Capt., Engrs. (Advertised Engineering News.)

It is reported that S. Hutchins, 10th and D Sts., N. W., will erect a 6-story stone building at 8th and F Sts., N. W., Washington, D. C.

Bids are being received by N. R. Grimm, Arch., 627 F St., N. W. ,for the construction of an apartment house on Capitol and O Sts., for R. D. James.

WASHINGTON, D. C.—Plans are in progress for an apartment house at 14th and Irving Sts., for C. F. Norment. The new building will be four stories, 40 × 120 ft., brick and stone. Cost, $50,000. A. H. Beers, 717 14th St., N. W., Washington, is Arch.

ROANOKE, VA.—A stock company has been formed here for the erection of a new $100,000 market for this city. Dr. J. A. Gale, Roanoke, Va., is Pres.

WHEELING, W. VA.—It is reported that a 14-story hotel will be erected here by the Rogers estate, costing above $400,000. H. F. Lange is Mgr.

ATLANTA, GA.—The contract for the structural steel for the new telephone exchange for the Southern Bell Telephone Co., at this place, was awarded to W. B. Schaiffe & Sons, of Pittsburg, Pa.

Plans have been completed for the new Masonic Temple, on Peachtree and Cain Sts., Atlanta. The building will be of brick and terra cotta, seven stories, 60 × 180 ft. Cost, $100,000. Morgan & Dillon, Prudential Bldg., Atlanta, are Archs.

McRAE, GA.—The contract for erecting the new court-house in this city was awarded to McKENZIE & SON, of Augusta, Ga.

NEW ORLEANS, LA.—Plans have been completed for the new 14-story hotel here for the Grunewald Hotel Co. The new building will be fireproof, 150 × 180 ft. H. C. Koch & Son, 1040 Wells Bldg., Milwaukee, Wis., are Archs.

NATCHITOCHES, LA.—The plans of Favrot & Livaudais, Archs., Abraham Bldg., New Orleans, La., have been accepted for the $80,000 addition to the Normal School here. The addition will be two stories and basement, brick and stone, slow-burning construction, 65 × 250 ft. B. C. Caldwell is Pres.

DONALDSVILLE, LA.—Bids are asked by G. B. Reuss, Pres. Board of Education, until noon, Feb. 6, for installing heating, plumbing, wiring and fireproofing in the new school building here. Mackenzie & Goldstein, 407 Tulane-Newcomb Bldg., New Orleans, La., are Archs.

NASHVILLE, TENN.—The contract for erecting the Stahlman bank and office building was awarded to JOHN T. WILSON, Richmond, Va. Cost, about $700,000.

Plans have been submitted for a new county jail for Davidson County. The estimated cost of the new building is $118,785. Wheeler, Runge & Dickey, 4 Court Bldg., Charlotte, N. C., are Archs.

MEMPHIS, TENN.—The contract for erecting the Lucy Brinkley Hospital here was awarded to the SELDEN-BRECK CONSTRUCTION CO., of this city. Mrs. J. W. Crawford, of Memphis, is Pres.

LOUISVILLE, KY.—Plans are completed for the new department store at Walnut St. and Fourth Ave., Louisville, for the Stewart Dry Goods Co. The building will be of concrete construction, eight stories, 108 × 180 ft. Cost, $250,000. Kenneth McDonald and W. J. Dodd, 600 Equitable Bldg., Louisville, Ky., are Archs.

YOUNGSTOWN, O.—The Erie Railroad Co. will erect a new passenger station here.

TOLEDO, O.—Plans have been completed for a new brick school building here, two stories and basement, 80 × 100 ft. It will be heated by hot air and will have a fan system, driven by electric motors. Bids will be taken soon. Langdon & Hohly, 902 The Spitzer, Toledo, O., are Archs.

CLEVELAND, O.—Preliminary plans have been made for the union passenger station here. The estimated cost is $5,000,000. The ground plot is 400 × 800 ft. The construction will be stone and steel.

It is reported that the Utopia Club, of this city, will erect a new $80,000 club-house on Wilson Ave., in this city.

The Chamber of Commerce has approved the plan to increase the estimated cost of the new City Hall from $1,500,000 to $2,600,000.

COLUMBUS, O.—Plans have been completed for a new residence and stable for Dr. Norton Downs, in this city. The house will be Colonial style, three stories, 70 × 182 ft. Cost $50,000. Horace Trumbauer, Columbus, O., is Arch.

INDIANAPOLIS, IND.—Competitive plans are being received by the Marion Club, of this city, for the erection of an $80,000 building. D. M. Parry is Chn. Com.

TERRE HAUTE, IND.—Plans have been completed and will soon be ready for bids for the construction of a new $60,000 school building here. J. G. Vrydaugh, 12 Naylor-Cox Bldg., Terre Haute, is Arch.

GRAND RAPIDS, MICH.—Bids are asked by John L. Boer, City Clk., until 7.30 p. m., March 5, for installing one hydraulic elevator in the City Hall in this City.

CHICAGO, ILL.—It is reported that the University of Chicago is considering the erection of a chapel in memory of Dr. Harper. Probable cost, $500,000. G. T. Goodspeed, is Secy.

The contract for the granite for the new Commercial National Bank, on Adams and Clark Sts., Chicago, was awarded to the WEBB PINK GRANITE CO., of Milford, Ill. The building will cost over $1,000,000.

The plans of Frost & Granger, Archs., 806 Temple Bldg., Chicago, have been accepted for the erection of the proposed church at Hermitage and Cullom Aves., for the Ravenswood Presbyterian Church. Rev. F. Sheldon, 532 Sunnyside Ave., Chicago, is Pastor.

Plans are completed and ready for bids for an apartment house on Drexel Boulevard, near 49th St., for August Wallantin. Cost, $80,000. A. Sandegren, First National Bank Bldg., Chicago, is Arch.

OELWEIN, IA.—Plans are in progress for a new depot here for the Chicago & Great eWstern Railway Co. The new building will be of cut stone, costing $50,000. Louis Lockwood, National German-American Bank Building, St. Paul, Minn., is Arch.

MINNEAPOLIS, MINN.—The West Hotel, rently destroyed by fire, will be rebuilt at once. Miss Helen Wood is the owner. Cost, $50,000.

ST. PAUL, MINN.—Plans have been completed and bids are being taken for the $300,000 auditorium to be built here. Reed & Stem, Endicott Bldg., St. Paul, are Archs.

A site has been selected for the new Y. M. C. A. building to be erected here. C. H. oJhnson, Manhattan Bldg, St. Paul, is Arch. Edward Grace is Secy. The new building will cost $275,000.

ST. PAUL, MINN.—It is stated that A. A. Pocock, owner of the Ryan Hotel, will remodel the entire structure at a cost of $100,000.

FORT MEADE, S. DAK.—Bids are asked until Jan. 31, 2 p. m., for electric light fixtures in six sets of officers' quarters, two sets non-commissioned officers' quarters, one double barrack, constructing secondary and service lines, furnishing transformers, etc. Major George K. Hunter. (Advertised Engineering News.)

SPRINGFIELD, MO.—Bids are asked by Barnett, Haynes & Barnett, Archs., Frisco Bldg., St. Louis, Mo., until Feb. 5, for the construction of a 7-story steel-frame, fireproof hotel, for the Colonial Hotel Building Co., at Springfield, Mo.

PORTLAND, ORE.—A site has been purchased for the new $50,000 residence for the Misses Henrietta and Mary F. Failing, in this city. The plot is bounded by Park and Ardmore Aves. and Douglas and Jefferson Sts.

SEATTLE, WASH.—The plans of James H. Schaack, Arch., Downs Bldg., Seattle, have been accepted for the new $100,000 church for the Methodist Episcopal congregation. T. S. Lippy, Seattle, Wash., is Chn. Com.

RENO, NEV.—Bids were opened Jan. 10 at the office of James Knox Taylor, Supervising Arch., Treas. Dept., Washington, D. C., for the construction of the United States postoffice at Reno, Nev., as follows: Morse Construction Co., of Topeka, Kan., $55,000; North Western Construction Co., Wahpeton, N. Dak, $43,773; J. H. Weise, Omaha, Neb., $49,400; W. H. Maxwell, Pierre, S. Dak., $53,500; W. G. McGinty, Reno, Nev., $58,100.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

NORTON, MASS.—Town is considering petition to legislature for authority to issue $75,000 of bonds for construction of a water system. Charles C. Valentine is interested.

BRATTLEBORO, VT.—A water board has been appointed and authorized to procure a water system, to cost $250,000, for this city. James F. Hooker is Chn. Com.

GIBSON, N. Y.—Plans have been prepared for the installation of a pumping engine and the extension of the water mains here.

PEEKSKILL, N. Y.—A plan has been submitted to the Board of Water Commissioners for the increase of the water supply here. Estimated cost, $135,000.

MINERVA, N. Y.—It is stated that John Anderson, Jr., of Newcomb, N. Y., will construct a dam across the outlet of Stony Pond Brook, 26 ft. in height and 475 ft. in length.

BUFFALO, N. Y.—City government is considering issuance of $500,000 of bonds for the construction of a new pumping station. The erection of a filtration plant is also being considered. Francis G. Ward is Comr. Pub. Works.

NEW YORK, N. Y.—The bids received on Dec. 28 for water mains in various streets in Borough of Richmond are officially announced as being as follows: Contract 1: Joseph Johnson & Sons, 193 Broadway, West New Brighton, N. Y., $148,720; Clinton Beckwith, 49 West 27th St., New York, $133,789; James P. Graham, Bath Beach, L. I., N. Y., $117,297. Contract 2: Joseph Johnson & Sons, $143,792; Clinton Beckwith, $131,600. Contract 3: L. D. Gregory, 125th St. and 1st Ave., New York, $160,986; A. H. Locheim, Mint Arcade Bldg., Philadelphia, Pa., $123,713; Joseph Johnson & Sons, $151,094; Clinton Beckwith, $119,790; J. T. Donavan, New Brighton, S. I., N. Y., $105,813. The itemized bids for this work will be given under Contract Prices in the next issue.

WATERVLIET, N. Y.—Plans are nearly perfected for the proposed gravity system of water-works, and shortly will be presented to the state water board for approval.

NEW YORK, N. Y.—A. B. [illegible] Ch. Engr. U. S. Public Bldgs., states that specifications have been prepared and bids will be asked shortly for relaying mains supplying Ellis Island with water.

SANDY HOOK, N. J.—Bids are asked until noon, Feb. 10, for the construction of an addition to pump house, 400,000 gallon concrete reservoir and installation of air compressor and air lift for wells at Fort Hancock, N. J. Lieut. William P. [illegible], Q. M.

PERTH AMBOY, N. J.—Bids are asked until 8.30 p. m., Jan. 24, for furnishing pipe. Adam Eckert, Clk. Bd. Water Comrs. E. J. Mason, Engr.

PERTH AMBOY, N. J.—The CLIMAX CONSTRUCTION CO., 42 Broadway, New York, has been awarded the contract for constructing a 25-ft suction well at Runyon at $7,954. Noted on Jan. 11.

RAHWAY, N. J.—Bids are asked until 8 p. m., Feb. 7, for the construction of a stand pipe and filter plant. H. B. Bunn, Clk. Bd. Water Comrs. (Advertised, Engineering News.)

JERSEY CITY, N. J.—Issuance of $7,500,000 of bonds for water-works is being considered by city. Charles Van [illegible] is Ch. Engr. Bd. Street and Water Comrs.

WAVERLY, PA.—Town is contemplating purchase of plant of Waverly Water-Works and operating a municipal water plant.

ALTOONA, PA.—An election will be held Feb. 20 to vote on the expenditure of $300,000 for the construction of a reservoir and other water-works improvements and $100,000 for paving and street improvements. Harvey Linton is City Engr.

HELLAM, PA.—It is stated that J. Edgar Small, of York, Pa., is interested in a company which will supply this town with a gravity water system.

NORFOLK, VA.—Bids are asked until noon, Feb. 1, for the improvement of the coagulating basin of the water system. Plans and specifications are on file at the office of Engineering News, 220 Broadway, New York. H. S. Herman, City Treas. (Advertised, Engineering News.)

PARKERSBURG, W. VA.—Bids are asked until noon, Jan. 25, for furnishing and installing complete a 250-HP. water tube boiler at the water-works station. Frank Good, City Auditor. (Advertised, Engineering News.)

WINSTON-SALEM, N. C.—It is reported that city is considering holding an election to vote on issuance of $125,000 of bonds for the purchase and extension of local water-works.

WILMINGTON, N. C.—City is reported to be considering municipal ownership of water-works.

COLUMBUS, GA.—It is stated that the city has awarded a contract to the SUTTER CO. whereby the city will be furnished with 5,000,000 gallons of water per day for $62,000, the contractors to have eight months in which to sink wells.

MARIETTA, GA.—The Georgia Mfg. & Public Service Co. has been organized here with a capital of $600,000. The officers of the company are Moultrie M. Sessions, Pres. and Treas.; E. J. Powers, Vice-Pres.; and William Burckel, Secy. They expect to spend $25,000 to $30,000 at once enlarging the present water-works plant and putting in a filtering plant, and will supply the electric light and power for the city, as well as furnishing the water. J. H. Wallace, 5 Beekman St., New York, is Consult. Engr.

DAYTONA, FLA.—See under Sewerage.

JACKSONVILLE, FLA.—Bids are asked by B. F. Dillon, Chn. Com., until noon, Feb. 5, for furnishing two surface condensers with pumps.

PALATKA, FLA.—Bids are asked until Feb. 1, for the construction of a water-works system in this place. W. W. Lyon is Consult. Engr. Specifications are on file at office of Engineering News, 220 Broadway, New York.

PUNTA GORDA, FLA.—An election will be held Jan. 30 to vote on issuance of bonds for water-works.

NEW DECATUR, ALA.—Town is considering erection of a filtration plant. B. L. Malone is interested.

SELMA, ALA.—It is stated that citizens will vote on issuance of bonds for the purpose of purchasing the plants of the Selma Water Co. and the Selma Lighting Co.

JACKSON, MISS.—City has sold $250,000 of 4½% water-works bonds and has engaged Kirkpatrick & Johnson, Jackson, Miss., to prepare plans for new system. The work probably will comprise filters, steam plant, transmission line and motor-driven centrifugal pump at distant intake, cast iron mains, with hydrants.

CARENCRO, LA.—Municipal officers are considering construction of water-works system.

CINCINNATI, O.—A. Herrmann, Pres. Bd. Water-Works Trustees, has stated that the following work remains to be done on the water system, most of which will be contracted for before spring: the filter, head and chemical houses, the weir, shaft and valve houses around the reservoirs, the auxiliary machinery for generating electricity and for hoisting coal at both pumping stations, wash and flush water pipes, the laying of the 60-in. force main from the Western Pumping Station to a connection with the Eden Park reservoir, and the completion of the reinforcements of the distribution system.

INDIANAPOLIS, IND.—F. A. W. Davis, Pres. Indianapolis Water Co., writes us that prices are desired on 40,000 ft. of 6, 8, 10, 12, 16 and 20-in. pipe.

HARTFORD CITY, IND.—The Hartford City Commercial Club will soon ask for bids for drilling of a 3,500-ft. well. Cost, $10,000.

LANSING, MICH.—Charles D. Dodge, Supt. Water and Electric Light Board, has prepared plans for the erection of a subpumping station on the west side of the river at an estimated expense for the plant and wells of about $4,000.

WEST TERRE HAUTE, IND.—The West Terre Haute Water-Works Co. has been organized to build a $50,000 water-works system here.

GRAND RAPIDS, MICH.—The Board of Trade has had plans prepared for providing Lake Michigan water for this city at an estimated cost of about $2,000,000. The plans call for an intake between Port Sheldon and Grand Haven, about three miles from Port Sheldon. The pumping station would be located on the shores of Lake Michigan, and would force the water through 25 miles of pipe to a 40,000,000 or 50,000,000-gallon reservoir on the high land on the West Side. It is proposed to attach the present pumping station to the Lake Michigan main and maintain it in readiness for any emergency. Barney Meyer is Supt. Bd. Pub. Works.

MARTINSVILLE, ILL.—The council has granted a franchise to Leach & Co. to install a water-works system in this city.

SENECA, ILL.—The village of Seneca has appointed A. T. Maltby, Consult. Engr., of Chicago, Ill., to prepare an estimate of the cost of a water-works system here.

GREEN BAY, WIS.—It is reported that the Green Bay Water Co. intends to rebuild the power plant and install a new triple compound pump that will cost $25,000.

DES MOINES, IA.—Charles S. Denman, Secy. and Treas. of the Des Moines Water-Works Co., has announced that the company would expend $60,000 during the coming year in laying new mains, nearly all of which are for increased fire protection.

WAVERLY, MINN.—Bids are asked until 2 p. m., Feb. 2, for a water-works plant on both gravity and compressed air systems. J. A. Kingstedt, Recorder. Claussen, Burch & Pillsbury, Engrs., 514 German-American Bank Bldg., St. Paul, Minn.

BRANDON, MINN.—Bids are asked until 8 p. m., Feb. 6, for the construction of a water-works system, consisting of steel tower, wood tank and pipe line. Claussen, Burch & Pillsbury, St. Paul, Minn., are Consult. Engrs.

BISMARCK, N. DAK.—The contract for constructing water main at Ft. Lincoln, N. Dak., has been awarded to WILLIAM TUNNY, of Peoria, Ill., for $25,740.

FAYETTE, MO.—Bids are asked until Jan. 30th for furnishing material and constructing water-works. Burns & McDonnell, Kansas City, Mo., are Engrs.

OSCEOLA, ARK.—Bids are asked until 10 a. m., Jan. 30, for the construction of a water-works system. Address the Board of Improvement. (Advertised, Engineering News.)

MARLIN, TEX.—The Marlin Water Co. will add new machinery to its plant and increase its capacity. A. R. Wright is Mgr.

OKLAHOMA CITY, OKLA.—The contract for preparing the plans and specifications for the proposed water-works was awarded to BURNS & McDONNELL, Engrs., Kansas City, Mo.

ROFF, IND. T.—The city has voted to issue $25,000 of bonds for a water-works system.

GREELEY, COLO.—Specifications and bidding sheets are on file at office of Engineering News, 220 Broadway, New York, for the construction of a gravity water system, as noted on Jan. 4.

COLORADO SPRINGS, COLO.—This city has entered into a contract with Manitou that will give it a new 24-in. main to bring the water down from the mountains through the town of Manitou to Colorado Springs. Construction will start immediately.

WALLA WALLA, WASH.—In connection with the proposed water-works, council has voted to advertise for bids for two kinds of wooden pipe, wire woundand continuous stave. Bids will be asked for the material alone, delivered in Walla Walla, and for the completed pipe in the ground.

SAN DIEGO, CAL.—The Southern California Mountain Water Co. has awarded the contract for constructing the pipe line from Bonita to University Heights to the ATLANTIC, GULF & PACIFIC CO., of San Francisco and New York, at approximately $150,000.

NAMPA, IDAHO.—The Big Gulch Reservoir Co. will construct a reservoir a few miles east of this city and a dam, 1,000 ft. in length, in connection with the same.

WINNIPEG, MAN.—Specifications and bidding sheet are on file at office of Engineering News, 220 Broadway, New York, for supplying a turbine pump. Bids are asked until Jan. 22, as advertised in Engineering News.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

HARTFORD, CONN.—An ordinance has been passed providing for a sewer in New Britain Ave. Frederick L. Ford is City Engr.

NEW YORK, N. Y.—Bids are asked until Jan. 23 for constructing sewers in various streets in Borough of Bronx. Louis F. Haffen, Boro. Pres.

NEW YORK, N. Y.—Bids were opened Jan. 9 for constructing various sewers in Borough of Bronx. Contract 14 was awarded to S. M. DE PASQUALE, Williamsbridge, New York, at $62,971. Other bidders were A. F. McGinness, 127 W. 58th St., $89,575; W. J. Ford, 17 West 103d St., $94,602; T. F. Murray, 1871 Jerome Ave, $92,628; J. J. Clancy, 6 Bradhurst Ave., $81,002; G. O. Bailey, 1144 Fulton Ave., $75,933; McDonald & Russell, 767 Tremont Ave., $73,947; M. F. Leahy, 1446 Prospect Ave., $105,736; Briggs & McLaughlin, 18 East 130th St., $75,941; Joseph Burns, 1909 Amsterdam Ave., $73,700; Frank Del Balso, 1481 Hoe Ave., $89,880; P. F. Brennan, 733 East 173d St., $75,175; bidders all of New York City. Contract 10 was awarded to M. F. LEAHY, at $21,039; Contract 11 to the CULGIN PACE CONSTRUCTION CO., at $4,268; Contract 13 to J. M. STANTON, at $5,492.

UTICA, N. Y.—Chapman L. Johnson, Engr., has prepared plans for a storm and sanitary sewer system for the newly annexed portion of the city, commonly known as Steele's Hill.

ROCHESTER, N. Y.—J. Y. McClintock, County Engr., has prepared plans for sewage disposal of this city. He recommends the construction of a tunnel 15 ft. in diameter from the lower river at a point near the lower falls to Irondequoit Bay, and the installation of a rotary pump to force the sewage into the bay.

JERSEY CITY, N. J.—The contract for constructing a sewer in Hudson Boulevard has been awarded to A. A. VAN WINKLE, whose bid was 92% of standard of cost.

CARRICK, PA.—The Borough is having plans and specifications prepared for a complete sanitary sewer system, to cost approximately $125,000. Plans will be ready for bidders early in the spring.

NARBERTH, PA.—Bids are asked until 8 p. m., Feb. 5, for the construction of a sewer system. E. C. Hawley, Clk. Council. Albright & Mebus, Engrs., 908 Land Title Bldg., Philadelphia, Pa. (Advertised, Engineering News.)

READING, PA.—Bids are asked until 3 p. m., Feb. 1, for the construction of sewers in house sewer dist. 13. C. C. Weltmer, City Clk. Elmer H. Beard, City Engr. (Advertised, Engineering News.)

WASHINGTON, PA.—The municipal authorities of this borough are contemplating the erection of a disposal plant for its sewage, and a special committee has been appointed to investigate same. Isaac W. Baum, Chn. Com., writes us that he desires information on this subject.

WASHINGTON, D. C.—Bids are asked until noon, Jan. 22, by the Commissioners of the District of Columbia for the construction of a sewer. Henry L. West, John Biddle, Comrs.

WASHINGTON, D. C.—Bids were opened Jan. 15 for the construction of about 9,500 ft. of trunk sewer, being a portion of the Sewage Disposal Outfall Sewer. Each bidder submitted two proposals: "A," work to be begun within 40 days from award and to be completed within ten months; "B," work to be begun in 40 days and completed within 16 months. Bids were as follows: Patrick McGovern, A, $298,358, B, $288,676; Brennan Construction Co., A, $317,324, B, $292,578; W. F. Brenizer Co., A, $296,770, B, $278,584; J. Connelly Construction Co., A, $298,583, B, $295,103.

ATLANTA, GA.—The contract for the Butler St. sewer extension has been awarded to H. W. GRANT, of this city.

SAVANNAH, GA.—Bids are asked until 11 a. m., Feb. 6, for building an addition to the Bacterial Purification Plant for Sewage at Fort Oglethorpe, Ga. Capt. H. D. Berkeley, Q. M.

DAYTONA, FLA.—F. T. Smith, Engr., representing Lewis & Kitchens, Chicago, Ill., has submitted plans for a sewer and water-works plant for this place.

GAINESVILLE, FLA.—Specifications and bidding sheets are on file at the offces of Engineering News, 220 Broadway, New York; Monadnock Block, Chicago, and Home Life Bldg., Washington, D. C., for the construction of a sanitary sewer system at this place, as advertised in Engineering News.

LEXINGTON, KY.—Bids are asked until Jan. 20 for the construction of an 8-in. sanitary sewer. Thomas Combs, Mayor.

CINCINNATI, O.—Bids are asked until noon, Feb. 5, for the construction of several sewers. M. J. Keefe, Clk. Bd. Pub. Service.

CLEVELAND, O.—Bids are asked until noon, Jan. 23, for the construction of sewers in several streets. W. J. Springborn, Pres. Bd. Pub. Service. A. R. Callow, Secy.

YOUNGSTOWN, O.—Bids are asked until noon, Jan 22, for the construction of a sewer in King St. G. T. Prosser, Clk. Bd. Pub. Service.

SOUTH BEND, IND.—HOBAN & ROACH, of this city, are reported to have secured the contract for constructing a 2,434-ft. trunk sewer (bids opened Dec. 20) for $24,045.

TRENTON, MICH.—Plans have been prepared for a sewer system here, to cost $90,000.

PEKIN, ILL.—An ordinance has been presented to council, providing for a sanitary and storm sewer in Dist. No. 4. Plans have been prepared, showing the length of the system to be about ten miles and the cost to be about $110,800. D. H. Jansen is City Engr.

WILMETTE, ILL.—Chas. N. Roberts, Engr., 709 Reaper Blk., Chicago, is preparing plans for a concrete sewer for this city, to cost about $140,000. Bids probably will be called for in the spring.

BLOOMINGTON, ILL.—Bids are asked until 2 p. m., Jan. 19, for constructing 12-in. sewers in various streets. J. S. Nevile, Pres. Bd. Local Improvements.

OCONOMOWAC, WIS.—The committee appointed by the Business League of this city to investigate means of sewage disposal has estimated the cost of a disposal plant for the city, including septic tank and pump, to be $22,000. George E. Robinson is interested.

DES MOINES, IA.—It is stated that bids are asked until Jan 27 for constructing several sewers. W. W. Wise, Chn. Bd. Pub. Works.

BURLINGTON, IA.—William Steyh, City Engr., is reported to be preparing plans for pipe sewers of 9 to 24-in. diam. and 2½ miles in length.

WASHINGTON, IA.—MAGDEN & SHEELY, of Des Moines, Ia., are stated to have secured the contract for a storm sewer at $2.92 per lin. ft. Bids were opened on Jan. 4.

MINNEAPOLIS, MINN.—Carl Ilstrup, Sewer Engr., informs us that city will expend about $195,000 for sewers during the coming year. All sewers are to be built by day labor and bids for furnishing material will be asked some time in February.

ST. PAUL, MINN.—RYAN & JOHNSON have secured the contract for a sewer on Cayuga St., at $2,630.

ST. LOUIS, MO.—H. R. Fardwell, Sewer Comr., has prepared plans for the construction of the Harlem Creek sewer for the drainage of the northwestern part of the city. It will cost about $225,000.

BONHAM, TEX.—John C. Saunders is interested in a company recently formed here to build a sewer system. Estimated cost, $25,000.

SEATTLE, WASH.—A resolution has been adopted by the council, providing for the improvement of Eastlake Ave. by constructing sewers therein, at an estimated cost of $97,500. This work probably will be commenced during the early spring. R. H. Thompson is City Engr.

FRESNO, CAL.—Bids are asked until Feb. 5, it is reported, for sewer work, to cost about $175,000. I. Tellman is City Engr.

MELROSE, CAL.—It is stated that bids will be received about Feb. 15 for pipe sewers, to cost about $25,000. E. C. Prather is Engr.

LAJOLLA, CAL.—A sewer system, to cost $47,200, has been planned for this place.

OAKLAND, CAL.—F. C. Turner, City Engr., has been instructed by council to prepare plans for a sewer system in 22d Ave.

PLAYA DEL REY, CAL.—It is reported that the Los Angeles-Pacific R. R. Co. is preparing to put in a septic sewer system at this place. It will construct a large tank, and twelve miles of pipe will be used in the system. E. P. Clark is Pres. and Mgr. at Los Angeles, Cal.

REDDING, CAL.—FRANK THOMPSON has been awarded the contract for constructing a sewer in Chestnut St., at $2,100.

FREDERICTON, N. B.—It is reported that bids are asked until Jan 22 for furnishing various quantities of vitrified, glazed sewer pipe. J. W. McCready, City Clk.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

EAST ORANGE, N. J.—The council is considering the advisability of having a garbage crematory erected and is investigating the various methods of garbage disposal.

YORK, PA.—The York Sanitary Reduction Co. has been organized, with capital of $10,000, to build a reduction plant for garbage disposal here. W. A. Witman, of Reading, is interested.

ALTOONA, PA.—A garbage furnace is recommended in the annual message of S. H. Walker, Mayor. Harvey Linton, City Engr.

PORTSMOUTH, VA.—J. J. McNally has offered to dispose of the garbage of the cities of Norfolk and Portsmouth by taking the refuse to some point on Hampton Roads and there building a crematory to destroy same.

ATLANTA, GA.—John Jentzen, Ch. Sanitary Dept., is reported to have recommended the construction of a garbage crematory in the eastern portion of the city.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

BUFFALO, N. Y.—Bids are asked until 11 a. m., Jan. 26, for paving three streets. Francis G. Ward, Comr. Dept. Pub. Works.

SYRACUSE, N. Y.—It is stated that West Onondaga St. will be paved for a distance of two miles. Council will decide question of using asphalt, brick or block. Frank J. Schnauber is City Engr.

NEW YORK, N. Y.—Bids are asked until Jan. 22 by John F. Ahearn, Boro. Pres., for repairing sheet asphalt pavements, together with the work incidental thereto. Engineer's estimate: 400,000 cu. ft. of asphalt wearing surface mixture, delivered and laid, in place of old wearing surface destroyed or removed; 10,000 cu. ft. of asphalt wearing surface mixture, delivered and laid, in repairing surface defects by the Burner method; 1,000 sq. yds. of asphalt pavement, including foundation, whether same is stone blocks or concrete, restored over cuts; 500 cu. yds. of Portland cement concrete, delivered and laid; 100 sq. yds. of stone block foundation, relaid.

NEW YORK, N. Y.—Bids are asked until Jan. 23 by Louis F. Haffen, Boro. Pres., for paving, grading, etc., on several streets.

NEW YORK, N. Y.—Contracts for paving in the Borough of Bronx have been awarded as follows: To the ASPHALT CONSTRUCTION CO., at $4,509; to D. W. MORAN, at $2,315; to P. J. KANE, at $2,545; to GEO. J. BAILEY, at $4,281.

ATLANTIC CITY, N. J.—Council will vote Jan. 22 on the proposition to pave Atlantic Ave. with lake asphalt. J. W. Hackney is City Engr.

JERSEY CITY, N. J.—The Hudson freeholders have ordered $30,000 in bonds issued to pay for improving the Newark Turnpike from Frank's Creek to the Harrison line and from the Hackensack River to the Belleville Turnpike.

ORANGE, N. J.—Fred T. Crane, City Engr., has prepared plans for about 11,700 sq. yds. of macadam paving. Bids will be asked about March 5. Willett B. Gans is City Clk.

ALTOONA, PA.—See under Water Supply.

HARRISBURG, PA.—M. P. Cowden, City Engr., writes us that ordinances are now being proposed calling for the paving of about 20,000 sq. yds.

PITTSBURG, PA.—It is reported that Allegheny County intends to issue this year $1,400,000 road improvement bonds, subject to the approval of the Grand Jury. Charles Davis is County Engr.

NORFOLK, VA.—Council has instructed W. T. Brooke, City Engr., to estimate the cost of paving Queen St.

BALTIMORE, MD.—The Commissioners for Opening Streets, as the Annex Improvement Commission, have adopted a general plan for the expenditure of the $2,000,000 Annex loan.

ROANOKE, VA.—Bids are asked until Feb. 10 for constructing brick sidewalks and macadam pavements in various streets. W. B. Bates, City Engr. (Advertised, Engineering News.)

BIRMINGHAM, ALA.—The contract for paving a section of First Ave. with bituminous macadam and vitrified brick has been awarded to the SOUTHERN BITULITHIC CO., Nashville, Tenn., at $28,500, and the contracts for paving 14th and 24th Sts. with vitrified brick has been awarded to DUNN & LALLANDE BROS., at $21,216.

CINCINNATI, O.—Bids are asked until noon, Jan. 25, for grading, curbing, etc., on Menlo Ave. George F. Holmes, Clk. Bd. Pub. Serv.

TOLEDO, O.—HENRY P. STREICHER was awarded the contract for the paving of Madison Ave. from Summit to St. Clair St. for $3,628.

INDIANAPOLIS, IND.—J. Clyde Power, Supt. of Parks, has been instructed by the Board of Park Commissioners to make preliminary plans for the building of a boulevard along the Crawfordsville Road from the Indiana Ave. bridge over Fall Creek to the present Riverside Park boulevard. He will report to the board the last of January.

LAURIUM, MICH.—Village authorities are considering employment of an engineer to prepare plans and specifications for paving in the business section. Estimated cost, $7,000.

GRAND RAPIDS, MICH.—L. W. Anderson, City Engr., has presented an estimate of $34,480 on the cost of paving with brick and concrete of Stocking St. from West Bridge to Seventh St.

STERLING, ILL.—Resolutions authorizing the paving of four streets have been passed by board of local improvements. Estimated cost, $36,941.

EFFINGHAM, ILL.—Estimates will be prepared to determine cost of paving Jefferson St. Contract probably will be let in March.

GREEN BAY, WIS.—Contracts for the construction of asphalt pavements on several streets will be let about Feb. 15, it is stated. W. W. Read is City Engr.

DES MOINES, IA.—J. W. Budd, City Engr., has estimated the cost of paving Second St. with brick at $6,939 and with asphalt at $12,837.

The board of supervisors have passed resolutions providing for the macadamizing of the road from this city to Bluegrass.

ST. PAUL, MINN.—Bids are asked until Feb. 5 by the Commissioners of Ramsey County for macadamizing Lexington Ave. and New Brighton Road. E. W. Krahmer, County Auditor.

ST. PAUL, MINN.—The contract for paving East Fifth St. has been awarded to the BARBER ASPHALT PAVING CO., 114 Liberty St., New York; and the PORTLAND STONE CO. has been awarded the contract for curbs and gutters on Inglehart St., at $2,237.

MINNEAPOLIS, MINN.—It has been estimated that the total cost for the year 1906 of the pavement already asked for by the citizens of the city is $171,754, and the approximate cost of the new curb and gutter demanded for the year 1906 is $23,284.

FARGO, N. DAK.—Plans and specifications have been prepared for paving Broadway with creosote blocks on concrete base. Contract will be let about March 1. Plans will be prepared for similar paving on several streets.

LAWRENCE, KAN.—Bids are asked until noon, Feb. 5, for the improvement of several streets. Approximate quantities of work are as follows: Grading, 12,000 cu. yds.; limestone curbing, 7,000 lin. ft.; vitrified brick pavings, 33,000 sq. yds. F. D. Brooks, City Clk.; Holland Wheeler, City Engr. (Advertised, Engineering News.)

INDEPENDENCE, KAN.—Bids are asked until 3 p. m., Feb. 13, for paving and curbing Tenth St. T. N. Sickels, City Clk. J. S. Barnwell, Engr. (Advertised, Engineering News.)

LITTLE ROCK, ARK.—Bids are asked until 2 p. m., Feb. 14, for paving a section of Main St. Guy E. Thompson, Secy. Comrs., Improvement Dist. No. 120. E. A. Kingsley, Engr.-in-Charge.

Contracts for paving sections of Tenth St. have been awarded to EUGENE SWAIN & CO., Fort Scott, Kan., at $76,000; and to the SOUTHERN BITULITHIC CO., Nashville, Tenn., at $11,500. Bids opened Dec. 28.

JEFFERSON BARRACKS, MO.—Bids are asked until noon, Feb. 7, for constructing roads, walks and grading. W. C. Cannon, Q. M.

GALVESTON, TEX.—Bids are asked until Jan. 29 for the paving of Galveston Sea Wall Boulevard, consisting of about 10,200 sq. yds. of macadam. John A. Murch, County Auditor.

SEATTLE, WASH.—A proposition to issue $500,000 park bonds will be submitted at the municipal election March 6. R. H. Thompson is City Engr.

PENDLETON, ORE.—An ordinance has been passed providing for the paving of East Court St.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—The Massachusetts Bureau of Statistics of Labor, Room 256, State House, has issued a report of industrial opportunities not yet utilized in Massachusetts. On page 285 is given a table the industries wanted by various towns. Charles F. Pidgin is Chief of Bureau. Frank H. Drown is First Clk. This report is on file at office of Engineering News, New York

WOONSOCKET, R. I.—It is reported that the Charles Tiberghien & Bros. Co., of Tourcoing, France, will erect a large mill at this place for the manufacture of worsted yarns and weave worsted goods. A. J. Pothier, of this city, is interested.

WANSKUCK, R. I.—It is reported that the Wanskuck Co., of this place, will erect a new knitting mill.

HARTFORD, CONN.—It is reported that the Windham Silk Mfg. Co., of this city, has had plans prepared for a new factory here.

ALBANY, N. Y.—Bids have been received for constructing the 4-story addition to the factory building of Cady & Son, at 64-68 Hamilton St., Albany. Obenaus & Brownell, 86 State St., Albany, are Archs.

Plans are in progress for a new factory for the Schilling Co., 48 Eagle St., Albany, for the manufacture of patent hollow cement building blocks. The new factory will be three stories, 60 × 80 ft., constructed of cement blocks made by the owners. A. H. Schilling, 48 Eagle St., Albany, is Mgr. S. Giiletti, 48 Eagle St., Albany, is Engr.

NEW YORK, N. Y.—J. & J. G. Wallach, 1210 2d Ave., New York, will erect an 8-story steel-frame factory building at 330-332 East 59th St., New York. Buchannan & Fox, 11 East 59th St., New York, are Archs.

POUGHKEEPSIE, N. Y.—Plans are in progress for the erection in this city of shops for the Poughkeepsie Engine Co., successors to the Birdsall Co., of Auburn, N. Y. The site will be the 425-ft. frontage on the Hudson River previously occupied by the Vassar Brewery. The new company will make a specialty of traction engines. E. B. Mosher, Auburn, N. Y., is interested.

The erection of the new pottery plant by the German Clay Stoneware Co., at this place, has been made a certainty. Preliminary plans have been drawn and submitted, but not approved. The question of concrete construction has added new interest to the owners, and the matter of construction has not been fully decided. B. H. Brevort, 61 Market St., Poughkeepsie, N. Y., is Engr. H. T. Hoag, is Secy. Board of Trade.

BROADALBIN, N. Y.—It is reported that the Broadalbin Knitting Co., of this place, will rebuild its factory, recently destroyed by fire.

CANASTOTA, N. Y.—It is reported that the Utica Pressed Brick Co., of Utica, N. Y., will erect a new factory here.

NIAGARA FALLS, N. Y.—We are informed that the Pittsburg Reduction Co., of Pittsburg, Pa., will erect new works at Niagara Falls, N. Y. The main building will be 150 × 480 ft., three stories and of special construction adapted to the manufacture of aluminum. An additional building, 125 × 300 ft., will be built later. E. S. Fickes, care Pittsburg Reduction Co., is Engr.

JERSEY CITY, N. J.—It is reported that the New York Watch Co., of Jersey City, will build an addition to its factory.

HOBOKEN, N. J.—Lehman & Co., of this city have incorporated for the purpose of manufacturing leather goods. It is reported that a large plant is to be erected. Otto A. Lehman, 252 Ferry St., Hoboken, is interested.

W. H. & F. W. CRANE, 13 Park Row, New York, have been awarded the general contract for the construction of the $100,000 plant for the Potter Wall Paper Co., on Garden St., Hoboken. The building will be 90 × 200 ft., four stories, mill construction.

BELVIDERE, N. J.—It is reported that the Warren Woodworking Co., will erect a new factory here.

BURLINGTON, N. J.—The contract for constructing foundry for the United States Cast Iron Pipe Co., in this city, was awarded to the McCLINTOCK-MARSHALL CONSTRUCTION CO., of this city. Steel and iron, 128 × 150 ft.

TRENTON, N. J.—Plans are in progress for the 3-story brick factory building for the Monument Pottery Co., of this city. Size, 75 × 105 ft. W. W. Slack, 18 East State St., Trenton, is Arch.

PHILADELPHIA, PA.—Bids have been taken for the factory of C. J. Mills, at Washington Ave. and 12th St., Philadelphia, Pa. M. W. Easby, 1420 Chestnut St., is Engr. The building will be 6-story, brick.

The Ajax Metal Co. of this city, will erect an addition to its factory, at Front and Frankford Aves. M. W. Easby, 1420 Chestnut St., Philadelphia, is Engr.

PHILADELPHIA, PA.—The Burnham-Williams Co., Broad and Spring Garden Sts., Philadelphia, has taken bids on the erection of a factory building for the manufacture of electric trucks. The new building will be 4 stories, brick, 80 × 400 ft.

Plans have been completed for the erection of an addition to the Pennsylvania Salt Mfg. Co.'s plant, in this city. Cost, $50,000.

Plans have been completed for a carpet factory for Henry Holmes & Son, at Trenton Ave. and William St., Philadelphia. The new building will be four stories, 80 × 100 ft., of slow-burning construction, except the first floor, which will be of reinforced concrete.

Revised plans have been completed for the construction of a 4-story addition to the factory of H. T. Paiste, 32d and Arch Sts., Philadelphia. Size, 50 × 125 ft. Bunting & Shrigley, 603 Chestnut St., are Archs.

PHILADELPHIA, PA.—Bids have been received for the extensive addition to the brewery of the Robert Smith Ale Brewing Co., at 38th St., Philadelphia. Otto C. Wolf, 1025 Arch St., Philadelphia, is Arch.

Plans have been completed for a new ice plant at Glen Willow station for the Glen Willow Ice Co. The building will be fireproof, brick and steel. K. W. Penckert, 310 Chestnut St., Philadelphia, Pa., is Engr.

ALLENTOWN, PA.—Plans are being prepared for a new factory for Peters & Jacobs, at 717-719 Hamilton St., in this city. The building will be fireproof, brick, stone and steel. Jacoby, Weishanepel & Biggin, Commonwealth Bldg., Allentown, are Archs.

READERS' WANTS Our readers, and others, who are in the market for supplies, machinery, etc., or to award contracts for work, will nearly always find the names of the firms who handle the material they want by referring to our advertising pages. Our advertisers are constantly changing their cards, and for this reason we advise our readers to look over the paper from the front cover to the back cover so as to keep in touch with up-to-date contractors' material, methods, etc. **Mention Engineering News** when writing our advertisers. If, however, you do not find advertised just what you want please write us at once and we will notify the proper firms without delay, and **without charge.—Engineering News can help buyers.**

GALVANIZED IRON AND STEEL.—Norway.—Karl Johannessen, of Bergen, Norway, is in the market for the above.

LIQUID AMMONIA.—Dominica.—R. A. Imbert, Agent United Fruit Co., Puerto Plata, D. R., W. I., is in the market for liuidq ammonia for manufacturing ice.

STONE CRUSHERS, CONCRETE MIXERS, ETC.—France.—France, Lanord & Bichalon, 7 Quai Isabey, Nancy, France, are in the market for stone crushers of 150 to 200 cu. ft. per hour, and concrete mixers.

CEMENT STONE MACHINES.—Penrose, Wyo.—Jas. B. Warden, of Penrose, via Garland, Wyo., writes us that he wants all data possible regarding cement block machines, etc., as it is desired to promote this line of

HARDWARE SPECIALTIES, IRON AND STEEL PRODUCTS, ETC.—Germany.—Luis Bose, Richard Wagner, Str. 40, Bremen, Germany, is in the market for the above.

PREPARING DRAWINGS.—New York, N. Y.—Julius Bien & Co., 140 Sixth Ave., write us that they want the names of firms able to prepare drawings for illustrations for reproduction by either the half-tone or wax process.

FASTENING COAL HOLE TOPS.—New York, N. Y.—Information is wanted of methods and chains for holding down covers to coal holes in sidewalks so that they cannot be pried up from the outside. Address "E. H. F.," care Engineering News, New York.

BEAVER FALLS, PA.—It is reported that the Pennsylvania Bridge Co., of this city, will expend about $200,000 in alterations and additions to its present plant.

PITTSBURG, PA.—It is reported that the Jones & McLaughlin Steel Co., of this city, will erect a new steel plant here.

It is reported that the Crucible Steel Co. of this city, will erect a new plant here which will contain 75 puddling furnaces, two sets of squeezers and two sets of plate mill rolls. It is also reported that the company contemplates the erection of a new railway spring plant.

GREENVILLE, PA.—It is reported that the Carnegie Steel Co., Pittsburg, Pa., will at once rebuild its plant here recently destroyed by fire.

BRISTOL, PA.—It is reported that the Bristol Patent Leather Co., of this place, will erect a new 2-story brick factory here.

YORK, PA.—Plans are in progress for a 3-story slow-burning brick addition to the silk factory of the York Silk Mfg. Co. here.

MINERSVILLE, PA.—The contract for a 3-story fireproof addition to the Union Brewing Co.'s brewery here was awarded to WILLIAM GEISBAUM, Pottsville, Pa., Contract includes power and equipment.

LEWES, DEL.—In our issue of Dec. 14 we stated that Robert J. Pennington, of Wilmington, Del., was interested in the enlarging of the Lewes plant of the American Fisheries Co., This statement was incorrect. Mr. Pennington informs us that he is counsel for the American Fisheries Co., but knows nothing of the business aside from matters pertaining to that department.

BALTIMORE, MD.—The contract for erecting the 5-story factory for the Carriage & Toy Co., at Tremont and Lombard Sts., was awarded to H. S. RIPPEL, 7 Clay St., Baltimore. J. E. Laferty, 11 East Pleasant St., Baltimore, is Arch.

It is reported that plans are in progress for an addition to the machine shop of the Detrick & Harvey Mch. Co., Preston St. and Greenmount Ave., Baltimore.

WASHINGTON, D. C.—The Patent Hot Water Heating Co., of this city, has appointed Frank H. Wheelock, Arch., 504 9th St., N. W., to draw plans for its new plant.

The Economic Heating & Refrigerating Co., of this city, will erect a new plant here. George Trusedall, 14th and F Sts., N. W., Washington, D. C., is interested.

ANNISTON, ALA.—It is reported that the Western Steel & Foundry Co., of this city, will erect an addition to its plant here and practically double the capacity.

CHARLOTTE, N. C.—The Elba Mfg. Co., of this city, will erect a new ice plant here, at a cost of about $50,000. T. J. Davis is Pres.

LATTIMORE, N. C.—It is reported that W. T. Calton and William Gettis are interested in the erection of a new $250,000 cotton mill here.

SPENCER, N. C.—It is reported that the shops of Southern Railway Co. in this place will be enlarged.

NEW ORLEANS, LA.—It is reported that Stephen Ciolina is interested in the erection of a factory on Magnolia St., in this city.

LOUISVILLE, KY.—It is reported that the Kentucky Public Elevator Co., of Louisville, will erect an addition to its elevator here, at a cost of $100,000.

YOUNGSTOWN, O.—It is reported that the Youngstown Car Mfg. Co. will erect an addition to its plant here, at a cost of $100,000.

ALLIANCE, O.—It is reported that the Holman Case Mfg. Co., of this city, will erect a new factory here.

CINCINNATI, O.—The Standard Pulley Co., of this city, is planning the erection of a foundry and machine shop on Spring St., Cincinnati.

SWITZ CITY, IND.—It is reported that the Colonial Mfg. Co., of this city, will erect a new bicycle factory here, at a cost of about $100,000. John A. W. Miller is interested.

GOSHEN, IND.—It is reported that the Robert R. Haven Art Co., of this city, will erect a factory here for the manufacture of school supplies.

EVANSVILLE, IND.—It is reported that the Crescent Brown Mfg. Co., of this city, will erect a new factory in Evansville.

MILWAUKEE, WIS.—It is reported that the Milwaukee School of Trades is considering the erection of a foundry in connection with the present group of buildings.

It is reported that the B. J. Johnson Soap Co., of this city, will erect an addition to its factory at 4th and Fowler Sts.

GRAND RAPIDS, MICH.—The Blodgett Co., of this city, will erect a new 7-story fireproof brick building for light manufacturing purposes. Cost, about $125,000.

BAY CITY, MICH.—The contract for erecting the new buildings for the American Shipbuilding Co., in this city, was awarded to A. R. MILLAR, Bay City, Mich.

AURORA, ILL.—It is reported that the High Pressure Water Gas Generator Co., of this city, will erect a new factory at Aurora. Walter I. Hoover is interested.

SPENCER, IA.—It is reported that Straight Bros., of this city, will erect a new tile factory here.

MINNEAPOLIS, MINN.—The Minneapolis Brewing Co., of this city, will erect a 2-story brick bottling plant here. Cost, $75,000.

ST. LOUIS, MO.—It is reported that the Brown Shoe Co., of this city will erect a 5-story brick factory building here.

HOUSTON, TEX.—It is reported that the Dickson Car Wheel Co., of this place, will erect new shops near Washington St.

BELLINGHAM, WASH.—The Excelsior Carbide & Gas Co., of this city, will erect a new factory here for the manufacture of gas machines and ranges. O. W. Ames is Pres.

OGDEN CITY, UTAH.—Bids have been received for the erection of a new plant here for the Utah Smelting Co.

NAMPA, IDAHO.—It is reported that A. W. Johnson is promoting the establishment of a brewery here. Cost, $100,000.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

LEVEE.—Pekin, Ill.—Bids are asked until noon, Jan. 29, for construction of a levee; estimated amount of work is 1,000,000 cu. yds. Howell J. Puterbaugh, Mackinaw, Ill., is Comr.

WOODEN SNAG BOATS.—Dallas, Tex.—Bids are asked until noon, Feb. 19, for constructing two wooden snag boats. Capt. W. P. Wootoen, Engrs. (Advertised, Engineering News.)

DYKE.—Lincoln, Neb.—Bids are asked by Buckstaff Bros., Lincoln, for building a dyke, 60,000 cu. yds., black loam, no stone or obstruction. Must be completed by May 15, 1906. (Advertised, Engineering News.)

COAL DOCK.—Superior, Wis.—The Northwestern Coal Co. will erect a coal dock here at a cost of $600,000. It is said it will surpass any coal dock in the world from the point of capacity. It will be commenced soon.

DOCK.— Palm Beach, Fla.—Bids are asked until noon, Feb. 6, for building a dock in Lake Worth at Palm Beach. It is to be 78 ft. long, 12 ft. wide and to contain 37 pilings. Address Franklyn Sheen, West Palm Beach, Fla.

VESSEL.—Washington, D. C.—Complete plans and specifications for the proposed twin-screw steel steam light-house tender, "Cypress," are on file at office of Engineering News, New York. Bids are asked until 2 p. m., Feb. 1.

TWO SNAG BOATS.—Vicksburg, Miss.—Plans and specifications are on file at office of Engineering News, New York, for two snag boats, as advertised in Engineering News on Jan. 11 and Jan. 18 and Feb. 1 and Feb. 8. Bids will be received until March 10. Capt. G. M. Hoffman, Engr.

DREDGING.—Jacksonville, Fla.—Bids were received on Jan. 8 as follows for dredging 200,000 cu. yds. at Orange Mills Flats, St. Johns River, Fla.: P. Sanford Ross, Inc., Jersey City, N. J., $20,800; Roderick G. Ross, Jacksonville, Fla., $21,500; Southern Dredging Co., Mobile, Ala., $28,000.

FIRE ALARM SYSTEM.—Norfolk, Va.—Bids are asked until 11 a. m., Feb. 10, for a fire alarm system at the U. S. Navy Yard, Norfolk. Specifications are on file at office of Engineering News, New York. Mordecai T. Endicott is Ch. of Bureau Yards and Docks, Navy Dept., Washington, D. C.

DITCH.—Glencoe, Minn.—Bids were received on Jan. 12 for constructing ditches here as follows: P. G. Henoen & Henry Ammundsen, Glencoe, county ditch No. 12, at $6,232; county ditch No. 13, Canal Construction Co., 40 Dearborn St., Chicago, Ill., at $6,133. F. D. Stocking, County Auditor.

PIER.—Portsmouth, N. H.—Bids are asked until 11 a. m., Feb. 10, for a pile and timber pier for the U. S. S. "Topeka" at the Navy Yard. Mordecai T. Endicott is Ch. of Bureau Yards and Docks, Navy Dept., Washington, D. C. Specifications may be seen at New York office of Engineering News.

DRAIN.—Saginaw, Mich.—We [illegible] by R. W. Roberts, City Engr. [illegible] Board of Public Works has prepared [illegible] for draining the low grounds in [illegible] which are below water in St. [illegible] Park. The water will be pumped from [illegible] River into a sewer. The cost will [illegible] about $10,000.

SUBWAY.—Deerpark, N. Y.—[illegible] building a subway or under-crossing [illegible] Erie R. R. Co. and this town [illegible] awarded as follows: LESHER & [illegible] Jersey City, N. J., masonry and [illegible] $11,544; steel for the bridge superstructure [illegible] LOUIS F. SHOEMAKER & Co., [illegible] delphia, at $3.15 per lb.

TUNNEL.—Boston, Mass.—[illegible] constructing entrance to Washington St. tunnel on south side of La Grange St. has been awarded by the Boston Transit Commission to PATRICK McGOVERN, [illegible] St., Boston, at $14,268. Bids were opened on Jan. 9. Itemized bids are given under Contract Prices in this issue.

STEEL BARGES.—Baltimore, Md.—The Consolidated Coal Co., of Baltimore, Md., will shortly issue specifications for steel barges to be used in the coast-wise trade of the company, and they will be placed among the large shipbuilding plants on the Atlantic coast, with a request for bids. The barges will have a capacity of 3,000 tons [illegible]

CEMENT.—Montrose, Colo.—Bids are asked until 2 p. m., Feb. 6, for furnishing about 30,000 bbls. of Portland cement [illegible] cars at stations on the Denver & Rio Grande R. R. (narrow gage) between Cedar Creek and Uncompahgre, Colo. E. A. Hitchcock, Secy., Dept. of the Interior, Washington, D. C. (Advertised, Engineering News.)

WHARF.—Norfolk, Va.—The Ashbury-Busch Brewing Co. has awarded to W. D. MURRAY the contract for driving the piles for the company's new pier at the foot of City Hall Ave. The pier will be used jointly by the brewing company and the Seaboard Transportation Co., which proposes to operate a line of steamers from here to Washington, D. C.

DAM.—Dayton, O.—We are advised that an ordinance will be introduced soon, providing for the issuance of bonds for the Miami River dam and park. When this is passed the city council will doubtless call for designs, estimates and bids for the work. Judge C. W. Dustin, of the Circuit Court, Second Circuit of Ohio, of Dayton, is interested in the project.

EXCAVATION.—Buffalo, N. Y.—Bids were opened on Jan. 15 for excavating in Black Rock harbor, Buffalo. The Empire Engineering Corporation, 111 Broadway, New York, was lowest bidder at $[illegible]154. The specifications call for a channel 200 ft. long and 23 ft. wide. Congress has appropriated $100,000, and has pledged $[illegible] more. Col. H. M. Adams, U. S. Engrs.

DEEPENING RIVER.—Savannah, Ga.—Senator A. S. Clay, of Georgia, advises us that a resolution has passed the committee on commerce in the Senate providing for a re-survey of the Savannah River from Savannah to St. Petersburg, Ga., for proposed deepening of the river. The resolution also calls for the necessary estimates as set forth by recent convention held at Augusta, Ga. Nothing else has been done up to this time. An appropriation of $10,000 is authorized to carry out the survey.

DITCH.—Willmar, Minn.—Bids are asked until 10 a. m., Feb. 2, for constructing the Judical ditch No. 3. The approximate amount of work to be done in the construction is as follows: Main Ditch, 19 miles long, 255,000 cu. yds. to be excavated, at an estimated cost of $31,000. 17 branches, 33 miles, 250,000 cu. yds. to be excavated at an estimated cost of $25,000. The estimated total cost of the work is $56,000. Lewis Johnson is County Auditor. Specifications are on file at office of Engineering News, New York.

PUBLIC WHARVES.—Baltimore, Md.—Bids are asked until 11 a. m., Feb. 7, for construction of stone and timber bulkheads to inclose and form piers Nos. 1, 2 and 3 and for certain other work connected therewith. Plans and specifications may be seen at offices of Engineering News at New York and Chicago, or may be had at Harbor Board Office, Baltimore, on payment of $15, which will be refunded to bidders. N. H. Hutton, Harbor Engr. E. Clay Timanus, Pres. Bd. Awards. (Advertised, Engineering News.)

CAR FLOAT.—Norfolk, Va.—The marine department of the MARYLAND STEEL CO., Sparrows Point, Md., has been awarded a contract for the New York, Philadelphia & Norfolk Railroad Co. for a steel car float, to be used in the ferry service between Cape Charles and Norfolk. This float will be a duplicate of the one previously contracted for by the steel company, and is to be 340 ft. in length over all, 338 ft. between perpendiculars; beam, 48 ft. 3 ins.; and a depth of hold 12 ft. 6 ins. There are to be four tracks, with a combined capacity of 28 loaded freight cars. The float will also be equipped with donkey boiler and pump.

CANAL.—Wyoming.—The Secretary of the Interior has executed a supplemental contract and approved the bond of JAMES O'CONNOR, for the construction and completion of Division 8, Interstate Canal, North Platte Project, on or before May 1, 1906. This contract is a modification of a former contract and provides for the completion of the entire work in a shorter period of time than was given in the former contract. A new contract was necessary owing to unforeseen delays for which the contractor was not responsible, and which prevented the Government from furnishing water to certain canal owners under the project in time for the crops of 1906.

DAM.—Nevada.—The Secretary of the Interior has annulled the contract between the Government and Edward Malley, contractor for construction of the Lake Tahoe dam and controlling works in connection with the

Truckee-Carson project. Contract is annulled because of the inability of the contractor to proceed with the work by reason of litigation instituted against him by private parties who desire to prevent the Government from diverting the waters of Lake Tahoe. It is the purpose of the Government to reimburse Mr. Malley for his expenses for the machinery which he has installed and to carry on the work by force account as an injunction cannot be obtained against the United States.

SUPPLIES.—Washington, D. C.—Bids were opened Jan. at the Bureau of Supplies and Accounts, Navy Dept., for various supplies for the Navy Yards. The following are of interest to engineers (lowest bid only is given): For taking down and removing from Navy Yard at Portsmouth, N. H., one Class "Gee" Ingersoll-Sergeant compressor, and furnishing and erecting in its place one piston inlet Corliss air compressor, Rand Drill Co., 11 Broadway, New York, $11,975. One 75 HP. 220-volt, direct-current motor and one 50 HP., 220-volt, direct-current motor, for Mare Island Yard, Cal., General Electric Co., Schenectady, N. Y., $2,020. Ten dump cars for New York Navy Yard, Continental Car & Equipment Co., 17 Battery Pl., New York, $1,825. One 16-in. buzz planer or hand joiner, for Naval Coal Depot, East Lamoine, Me., Drew Machinery Agency, Manchester, N. H., $165 and $189. One electric hoist and runway in building No. 62, Navy Yard, Norfolk, Niles-Bement-Pond Co., 111 Broadway, New York, $3,350 and $2,900; R. M. Wilkinson Co., Inc., Norfolk, $3,000. One electric motor-driven outfit, for bending rolls, for Portsmouth Navy Yard, N. H., Holtzer-Cabot Electric Co., Brookline, Mass., $529. One plain milling machine with feed 24 ins. × 7½ ins. × 18 ins., for Boston Navy Yard, Becker Brainerd Milling Machine Co., Hyde Park, Mass., $300. One screw cutting engine lathe, 14-in., for Boston Navy Yard, Garvin Machine Co., New York, $460. One portable hydraulic shaft straightener, for Boston Navy Yard, Manning, Maxwell & Moore, Liberty St., New York, $251. One automatic screw machine, for Norfolk Navy Yard, Brown & Sharpe Mfg. Co., Providence, R. I., $917.

CONTRACT PRICES.

The names of parties awarded contracts are printed in capital letters.

TUNNEL.—Boston, Mass.—PATRICK McGOVERN, 6 Beacon St., was lowest of seven bidders on contract for constructing the entrance to Washington St. tunnel on the south side of La Grange St., and was awarded the contract. Bids were received Jan. 9 by the Boston Transit Commission. The itemized bids were: (a) Hugh Nawn Contracting Co., 82 Savin St.; (b) Coleman Bros., 15 Court Sq.; (c) W. A. & H. A. Root, Winthrop; (d) Falvey & Kelley, 13 Centre Ave., Dorchester; (e) James J. Coughlan Construction Co., 19 Worthington St.; (f) Metropolitan Contracting Co., 95 Milk St.; (g) Patrick McGovern, 6 Beacon St.; all were local firms:

tank steamers to supply, in addition to its present large fleet, the necessary means of conveying the oil to the pipe.

SUPPLIES.—Panama.—Bids are asked until 10.30 a. m., Feb. 2, by the Isthmian Canal Commission, for various tin and copper shop machinery and tools, gasoline torches, sand-blast apparatus, circular saws, cast-iron pipe and fittings (very small order), railroad cross ties (200,000, 7 in. × 9 in. × 9 ft., with alternate of 200,000, 7 in. × 9 in. × 8½ ft., 200,000 ties to be ordered).

WATER-WORKS. — Manila, P. I. — Bids for the proposed gravity water-works for the city of Manila, opened in the office of the Municipal Board, Manila, on Jan. 2, were as follows: J. G. White & Co., New York, $1,096,353; Matson, Lord, Belser Co., San Francisco, $1,040,729; Atlantic, Gulf & Pacific Co., New York, $1,071,930; Schau, Batcher Co., Sacramento, Cal., $1,067,032. The contracts were awarded as follows: Section A, dam and head-works, $241,510, and Section E, reservoir and gate-house, $222,478, to MATSON, LORD, BELSER CO., San Francisco. Section B, furnishing steel plates and rivets, $99,900, to HENRY W. PEABODY & CO. Section C, manufacturing and laying steel pipe, $281,935, and Section D, construction of tunnel, $179,-987, to ATLANTIC, GULF & PACIFIC CO., New York and San Francisco. Total, $1,-025,811. Fully noted last week.

GANTRY CRANE.—Cristobal, C. Z.—Bids were opened Jan. 12, by David W. Ross, Purchasing Agent, Isthmian Canal Comn., Washington, for one gantry crane, to be delivered and erected complete at Cristobal, Canal Zone, for the dry dock at that place, and for one one iron roof to be delivered and erected complete at Crittobal, C. Z. The following bids were received: Wellman-Seavor-Morgan Co., Cleveland, O., crane, $21,920; time, 180 days; U. S. Steel Products Export Co., New York, roof, $45,000; time, 120 days; Milliken Bros, New York, crane, $9,860; time, 200 days; roof, $32,660; time, 200 days; Cleveland Crane Car Co., Wickliffe, O., crane, $40,000; time, 150 days; Brown Hoisting Machinery Co., Cleveland, O., crane, $22,500; time, 270 days; roof, $57,890; time, 270 days; Penn Bridge Co., Beaver Falls, Pa., crane, $28,720; time, 250 days; roof, $53,340; time, 250 days.

SEWER SYSTEM.—Manila, P. I.—Bids were received on Jan. 12 for constructing a sewer system in this city. We are informed that the entire contract has been awarded to the ATLANTIC, GULF & PACIFIC CO., 13 Park Row, New York, at $1,631,053. This company has just finished harbor improvements at Manila and other work there for the government. Its government contract work at Manila amounts to $4,000,000. The work on the new sewer system must be commenced within three months after the execution of the contract and completed before July 1, 1909. The contract was let only as a whole. The total length of the

factory at Valencia at the upset price of 1,379,876 pesetas (about $275,500). A deposit of 68,993 pesetas (about $12,000) is required to qualify any bid.

LOCK CONSTRUCTION.—Belgium.—Bids will be asked soon by the "Direction du Service Special de l'Escaut Maritime, Marche-au-Ble de Zelande, Antwerp," for the construction of a lock and other works below Mechlin, at the estimated cost of 1,-088,699 frs. ($208,000). A deposit of 55,000 frs. (about $10,500) is required to qualify any bid.

IRON WORK. — Netherlands. — Bids are asked until Jan. 23 for construction and delivery, in complete working order, of an iron repaving stage for the dry-docks I, II, III, on left side of River Maas. Delivery is to be made on or before Oct. 1, 1906. Further particulars can be obtained from P. van Waesberge and Zoon, Rotterdam, at a cost of 2 fl. (80c.).

RAILWAY.—Belgium.—A notice has been issued by the "Societe Nationale des Chemins de Fer Vicinaux," inviting bids until Feb. 7, for the construction of the line from Etalle to Bellefontaine, and the alteration of Etalle station. The estimated cost of the work is 303,037 francs ($50,577), and a deposit of 30,000 francs ($5,7000) is required to qualify any bid. Bids, in sealed envelopes, should be addressed to the General Manager of the company, at 14, Rule de la Science, Brussels, where specifications, plans, etc., may be inspected.

INDUSTRIAL NOTES.

THE DAILEY CONSTRUCTION CO. has removed its head office from Philadelphia to Wycombe, Bucks County, Pennsylvania. The company recently secured a large contract for railway work in Kentucky, and so has opened an office out in Stearns, Ky.

THE GOLDEN MINING CO., Hillside, Ariz., is installing a power plant to operate its mining machinery. Contract has been closed for two of the well-known "Hornsby-Akroyd" oil engines, 16 H.P. each, built by the De La Vergne Machine Co., of New York.

THE WEBER STEEL-CONCRETE CHIMNEY CO., Chicago, state that Mr. Herbert R. Hyatt, formerly with the Custodis Chimney Co., has been appointed District Sales Manager for the Weber Steel-Concrete Chimney Co., with offices at 507 Singer Building, New York. Mr. Hyatt will have charge of the New England, N. Y. and Northern N. J. territory.

THE MEAD-MORRISON MFG. CO., Cambridgeport, Boston, Mass., has been awarded the contract for equipping with coal handling machinery the new Waterside station of the N. Y. Edison Co. and the Gold St. station of the Brooklyn Edison Co. This company was also engineer and also supplied and installed the coal handling equipment for the Williamsburg power-station of the Brooklyn Rapid Transit Co.

	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1,300 cu. yds. earth excavation	$5.00	$5.00	$2.50	$4.00	$5.00	$4.30	$3.75
500 cu. yds. concrete in station walls, etc.	10.00	12.00	6.50	12.00	11.00	9.25	9.00
250 cu. yds. concrete other than that in item (b)	14.00	15.00	8.00	16.00	13.00	10.35	11.00
Setting 7 tons steel weighing less than 6 lbs. per lin. ft.	12.00	15.00	35.00	30.00	11.00	15.00	9.00
Setting 25 tons steel weighing 6 lbs. or more per lin. ft.	15.00	20.00	20.00	30.00	15.00	20.00	12.00
Removing foundations, walls, floors, etc.	1,800.00	700.00	1,975.00	500.00	550.00	400.00	450.00
2,200 sq. yds. tarred felt, pitch, etc., for waterproofing	.20	.25	.60	.30	.45	.20	.15
Underpinning, supporting & protecting buildings and other work and risks not covered by other items	5,000.00	3,000.00	7,890.00	3,000.00	1,930.00	2,300.00	1,000.00
Time of completion	June 1, 1903	April 1	May 1	April 20	....	May 1	April 1
Totals	$22,699.00	$21,105.00	$20,430.00	$20,320.00	$19,232.00	$16,547.00	$14,268.00

SEWERAGE.—Fredericton, N. B.—Bids were received on Dec. 28 for constructing a sewerage system in this city. The contract was awarded to J. B. McMANUS, of Memramcook, N. B. The itemized prices were as follows: (1) Gow & Palmer, Boston, Mass.; (2) Bruno Bros. & McKenzie, Boston; (3) Brown Bros., Fredericton; (4) Mooney & Sons, St. John, N. B.; (5) J. B. McManus, Ltd., Memramcook; (6) R. McManus, Memramcook; (7) Willard Kitchen, Fredericton; (8) George M. Bryne, Boston:

sewers is to be approximately 52 miles, of which 7.5 miles will be of brick and concrete sewer, ranging from 4.75 ft. in diameter to 2 × 3 ft. egg-shaped and laid at depths of from 12 to 20 ft. below the surface; and 43 miles of pipe sewers, from 8 to 24 ins. in diameter, laid at depths of from 5 to 18 ft. In addition there will be one 42-in. cast-iron outfall pipe 6,500 ft. long laid below the bed of the harbor on pile foundation. Also one double line of 24-ft. flexible joint cast-iron pipe 650 ft. in length, to be used in a siphon

W. H. BACKUS & SON, consulting and contracting engineers of Portland, Ore., Sherlock Bldg., announce the incorporation and extension of their business under the firm name of the Standard Construction Co. A specialty will be made of the design and construction of reinforced concrete structures, such as bridges, tanks, reservoirs, dams, retaining-walls, standpipes, chimneys, storage bins, conduits, docks, difficult foundations, etc. Contracts will be solicited on a "Cost-plus-a-fixed-sum" basis.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
48,000 cu. yds. earth excavation, 0—9	$0.60	$0.55	$0.66	$0.67	$0.50	$0.90	$0.64	$0.54
3,100 cu. yds. earth excavation, 9—15	1.25	1.75	1.35	1.50	.75	2.00	1.45	1.50
100 cu. yds. earth excavation, 15+	2.00	2.00	2.00	3.00	1.25	3.00	2.00	1.50
50 cu. yds. rock excavation	4.00	1.00	4.00	6.00	2.00	3.00	3.00	2.00
48,000 ft. laying 8-in. pipe	.03	.10	.10	.11	.08	.08	.09	.10
2,200 ft. laying 10-in. pipe	.10	.12	.11	.15	.10	.10	.10	.10
1,000 ft. laying 12-in. pipe	.10	.14	.14	.20	.11	.15	.15	.10
2,600 ft. 15-in. pipe	.15	.16	.18	.25	.12	.20	.19	.15
1,000 ft. 18-in. pipe, cement	.25	.20	.20	.35	.14	.25	.20	.20
1,600 ft. 18-in. pipe, asphalt	.40	.25	.32	.35	.16	.30	.33	.25
630 cu. yds. brick masonry	14.25	12.50	14.00	14.00	10.00	20.00	13.00	14.00
50 cu. yds. concrete 1-3-6	6.00	8.00	7.00	10.00	8.00	10.00	8.50	6.00
100 cu. yds. concrete 1-2½-5	8.50	9.00	9.00	12.00	9.00	12.00	9.50	8.00
3,700 ft. laying underdrain	.50	.30	.30	.35	.15	.35	.45	.40
2,300 ft. laying chimney	.10	.09	.10	.10	.08	.20	.15	.10
Pumping station	1,000.00	1,030.00	900.00	750.00	800.00	1,000.00	940.00	900.00
450 ft. laying 14-in. outfall	5.00	6.00	6.50	5.00	1.50	1.50	6.90	5.00
Total	$53,822	$53,327	$58,708	$60,995	$42,013	$74,165	$58,012	$52,469

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

SUCTION DREDGES.—Washington, D. C. —Specifications are to be issued shortly by the Isthmian Canal Commission for two seagoing suction dredges, in length, 280 ft. each, as well as for large orders of galvanized iron roofing and cast-iron pipe and fittings.

PIPE LINE.—Panama.—A press report from Washington, D. C., states that Secretary Taft has recommended to the President that he sanction the issue of a revocable license to the Union Oil Co. of California to construct and maintain a pipe line across the canal zone. The company undertakes to complete the line by Aug. 1 next, and to build in American shipyards suitable

crossing the Pasig River; 269,000 ft. of terra cotta and about 5,000 tons of large size cast-iron pipe will be used in the complete work.

FOREIGN CONTRACTS.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at ——, ——. Such letters are opened and attended to by the person who happens to be in charge of the office. If addressed to the consul by name they are forwarded to him unopened if he should be absent, and a delay thus intervenes; if he should in the meantime have gone out of office they may wholly escape attention.)

BUILDING CONSTRUCTION. — Spain. — Bids are asked until Feb. 9, at the State Tobacco Department, 4, Plaza del Rey, Madrid, for the construction of a tobacco

THE UNITED VERDE COPPER MINE, at Jerome, Ariz., has just contracted with the Ingersoll-Rand Co., of New York, for a cross-compound condensing two-stage Corliss air compressor which, when installed, will be the largest compressor unit in Arizona and the Southwest. The order calls for a 48-in. stroke machine, with steam cylinders 28 and 52 ins. in diameter and air cylinders 44¼ and 26¾ ins. Steam cylinders are jacketed, with valves in the heads. The machine is to operate under 110 lbs. steam pressure and a vacuum of 26 ins.; a very high steam economy is guaranteed. The air cylinders will be jacketed on heads and barrels and will be fitted with the Piston Inlet air valves. The compressor will run at 75 R. P. M., at which the piston displacement will be 6,030 cu. ft. of free air per minute. The air pressure is to be 100 lbs. and the altitude is about 5,500 ft.

For other Proposal Advertisements see pages 43, 44, 45, 46, 47, 48, of Advertisements and Construction News page 28.

STANDPIPE AND FILTRATION PLANT.

Rahway, N. J.

The Board of Water Commissioners of the City of Rahway, N. J., invites proposals for additions and improvements to their water-works as follows:

1st. A standpipe 125 feet high and 25 feet in diameter, and connections, complete with foundations.

2d. A filter plant of a capacity of not less than four million (4,000,000) gallons per 24 hours, guaranteed to remove the coloring matter and matter in suspension in the water, and to effect a bacterial reduction of not less than 97%.

Said standpipe and filter plant are to be erected on the property of the City of Rahway at its pumping station; they shall be complete with all necessary buildings, appliances and covered passage from filtration plant to present pump-house to furnish an adequate system of storage, sedimentation and filtration of water for said City of Rahway.

Connections are to be made with the present mains and with the boilers. These are to be so arranged that either, or both, the standpipe and filters may be cut off when desired.

The ground location for standpipe and filters may be seen at the water-works at Rahway, N. J.

All bidders to submit their own plans and specifications for the work, and in all cases those bidding must have a municipal filter of the type they bid upon in practical operation.

Bidders must state the time within which the plant shall be completed.

Terms of payment to be:

First. In non-negotiable certificates of indebtedness of the City of Rahway, issued by the Water Board, 96⅔% of which certificates shall be funded into bonds of the City of Rahway within thirty days after the acceptance of the plant, said bonds to run for a period of thirty years from their date of issue, without option of prior redemption, and shall bear interest at the rate of four and one-half per cent. per annum, payable semi-annually, principal and interest to be paid in the City of New York or in the City of Rahway, at the option of said Commissioners, and the remainder of said certificates, to wit, three and one-third per cent. shall be paid in cash at the same time (Chap. 3, Laws 1901).

OR,

Second. Bonds of the Board of Water Commissioners, issued under the act of 1896, chap. 51, at same rate of interest, and thirty year term as above.

Bidders will state lowest price they will accept in cash.

Each bid must be accompanied by a certified check for one thousand dollars ($1,000) as a guarantee that the bidder will, if awarded the contract, execute the same within ten days from date of award.

The bond required will be five thousand dollars ($5,000) for the standpipe and five thousand dollars ($5,000) for the filter plant, and shall be with a surety company of approved standing.

The Board reserves the right to reject any or all bids.

Sealed bids are to be addressed to Board of Water Commissioners, Rahway, N. J., and opened at their office on Monroe Street in said city at 8 o'clock p. m., February 7, 1906.

Further information may be obtained from the President of the Board of Water Commissioners, Rahway, N. J.; or F. W. Langstroth, 79 Beekman Street, New York City.

By direction of the Board.

3-3t H. B. BUNN, Clerk.

STREET PAVING.

Independence, Kan.

Sealed proposals will be received by the City Clerk of Independence, Kansas, up to three (3) o'clock p. m. of Tuesday, February thirteenth (13th), 1906, for the paving and curbing of Tenth Street. Distance, 3,200 feet; width, thirty (30) feet; two courses of vitrified brick. Plans and specifications on file at office of City Clerk. Certified check for $700 to accompany bid. The city reserves the right to reject any or all bids.

T. N. SICKELS, City Clerk.

JOS. S. BARNWELL, Engineer. 3-1t

BRIDGES.

Department of Public Works.
Bureau of Surveys,
Office, 416 City Hall.
Philadelphia, Jan. 15, 1906.

Sealed proposals, endorsed "Bids for Bridges," and addressed to the undersigned, at the office above mentioned, will be received until 12 o'clock, noon, on Wednesday, Feb. 14, 1906, for Schedule A. Bridges.

Plans for the above work will be exhibited in the office of the Bureau of Surveys, Philadelphia.

Specifications and blank forms upon which bids must be made will be furnished upon application to the Chief Engineer, Room 416 City Hall.

Bidders must be skilled and regularly engaged in the class of work bid for.

No bid will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81, West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city.

A. LINCOLN ACKER,
3-3t Director.

TENDERS

FOR STREET LAMPS AND TRANSFORMERS.

Sealed tenders addressed to Alderman J. C. Gibson, Chairman Fire, Water and Light Committee, will be received at the office of the undersigned up to 3.30 p. m., on Monday, February 12th, 1906, for the following supplies for street lighting system for the City of Winnipeg, namely:

100 to 200 Series Alt. Arc Lamps.
100 to 200 Absolute Cut-outs.
2 or 4 Constant Current Transformers.

Specifications and forms of tender may be obtained on application to F. A. Cambridge, City Electrician, Winnipeg, Can.

Each separate tender must be accompanied by an accepted cheque or draft (payable to the order of the City Treasurer) or cash deposit for an amount equal to 5 per cent. of the tender, which will be subject to forfeiture in case of failure on the part of the contractors to enter into a written contract with approved sureties when called upon to do so.

The city reserves the right to reject any or all tenders or to accept any bid which appears advantageous to the City of Winnipeg.

C. J. BROWN,
City Clerk.

City Clerk's Office,
Winnipeg, Man., Jan. 11, 1906. 3-2t

DYKE

DYKE TO BUILD.—60,000 cu. yds., black loam. No stone or obstruction. Can use water if wanted. Must be completed by May 15, 1906. BUCKSTAFF BROTHERS,
Lincoln, Neb. 3-1t

TENDERS FOR ELECTRIC GENERATORS.

Sealed tenders addressed to Ald. J. C. Gibson, Chairman Fire, Water and Light Committee, for supply of two 500 HP. Electric Generators, will be received at the office of the undersigned up to 3.30 p. m. on

MONDAY, FEBRUARY 12, 1906.

Specifications and forms of tender may be obtained on application to H. N. Ruttan, City Engineer, Winnipeg, Canada.

Each tender must be accompanied by an accepted cheque or draft payable to the order of the City Treasurer, or cash deposit for the sum called for in the form of tender supplied, which will be subject to forfeiture in case of failure on the part of the contractor to enter into a written contract, with approved sureties, if called upon to do so.

The city reserves the right to reject any or all tenders or to accept any bid which appears advantageous to the City of Winnipeg.

C. J. BROWN,
City Clerk.

City Clerk's Office,
Winnipeg, Man., Jan. 10, 1906. 3-2t

U. S. ENGINEER OFFICE, Federal Building, Dallas, Tex., Jan. 19, 1906.—Sealed proposals for constructing complete wooden snagboat will be received here until 12 M., Feb. 19, 1906, and then publicly opened. Information on application. W. P. WOOTEN, Capt., Engrs. 3-4t

U. S. ENGINEER OFFICE, Nashville, Tenn., January 8, 1906.—Sealed proposals for construction, delivery and erection of two Steel Lock Gates, and construction and delivery of Filling Valves, etc., at Lock No. 21, Cumberland River, will be received here until 11 A. M., February 8, 1906, and then publicly opened. Information on application. H. C. NEWCOMER, Major Engrs. 2-4t

WATER-WORKS IMPROVEMENTS.

Norfolk, Va.

Sealed proposals will be received up to 12 o'clock noon, Feb. 1st, 1906, at the Office of the Superintendent of the Norfolk City Water Department, Norfolk, Virginia, for the improvement of the Coagulating Basin of the water system of the City of Norfolk, Virginia.

The work to be done includes:

1st. Driving about 600 lineal feet of wooden grooved and tongued sheet piling.

2d. Excavating about 12,000 cubic yards of earth.

3d. Driving about 150 piles in bottom of basin.

4th. Setting floor sills and laying wooden floor in bottom of basin, about 76,000 square feet in area, and bricking sides of same.

5th. Constructing two sluice-ways of brick and setting sluice gates in same.

6th. Constructing suction chamber and setting sluice gates.

7th. Laying about 680 feet of 30-in. cast iron water pipe.

8th. The furnishing of all materials required for the work.

The Board of Water Commissioners reserves the right to reject any or all bids, or to accept the one which in their judgment is for the best interests of the Department.

Proposals for doing the proposed work in concrete construction entirely, instead of wood, are especially invited, provided proper guarantees as to the sufficiency of the same to make the basin water tight are given, and the time required to do the work specified.

A certified check or draft for the sum of $1,000, payable to the order of H. S. Herman, Treasurer to the City of Norfolk, Virginia, must accompany each proposal, which is to be held as a guarantee that if the bid is accepted the bidder will enter into a contract within ten days thereafter.

A bond in the sum of $5,000 will be required for the successful completion of the work.

Plans and specifications can be seen at the office of the Superintendent of the Water Department, Norfolk, Virginia, and at the office of the Engineering News, New York City.

BOARD OF WATER COMMISSIONERS,
Norfolk, Virginia.
Jan. 12, 1906. 3-2t

WATER-WORKS.

Osceola, Ark.

Sealed bids will be received until 10 o'clock a. m., Jan. 30, 1906, for the construction of a system of water-works in the town of Osceola, Ark. Bids must be in conformity to the specifications on file with the Board of Improvement, and bids involving a material change in the specifications will not be considered. Address the BOARD OF IMPROVEMENT, Osceola, Ark. 3-1t

DEPARTMENT OF THE INTERIOR, Washington, D. C., December 23, 1905.—Sealed proposals will be received at the office of the United States Reclamation Service, Roswell, N. Mex., until 2 o'clock p. m., February 1, 1905, for the construction and completion of canals and laterals involving about 100,000 cubic yards of earthwork and 1,000 cubic yards of overhaul, at a point about 8 miles southwest of Roswell, N. Mex. Plans, specifications and forms of proposal may be obtained by application to the chief engineer of the Reclamation Service, Washington, D. C., or to W. M. Reed, Roswell, N. Mex. THOS. RYAN, Acting Secretary. 26-4t

PIPE SEWERS.

Reading, Pa., Jan. 10th, 1906.

Sealed proposals will be received at the office of the City Clerk of Reading, Pa., until 3 p. m. of Thursday, Feb. 1st, 1906, for the construction and laying of about

20,800 lin. ft. 10-inch pipe sewer,
20,600 lin. ft. 5-inch pipe sewer,

together with all the "Y's" and manholes in house sewer district No. 13.

A certified check upon a National Bank or a Trust Company proposal bond in the sum of $6,000 must accompany each bid, and the successful bidder will be required to enter into a contract bond with a trust company existing under the laws of Pennsylvania, or authorized to do business in the State of Penna. in the sum of 40 per centum of the total amount of the contract.

Plans and specifications can be seen and blank forms of proposal obtained at the office of the City Engineer, Reading, Pa.

All proposals must be endorsed "Proposals for House Sewer District No. 13," and addressed to the Board of Public Works, in care of Charles C. Weltmer, City Clerk of Reading, Pa.

Payments for the proposed work will be made in improvement bonds.

The right is reserved to reject any or all bids.

By order of the Board of Public Works.

ELMER H. BUND,
3-2t City Engineer.

BOILERS.

Parkersburg, W. Va.

Sealed proposals or bids will be received by Frank Good, Auditor of the City of Parkersburg, West Virginia, until 12 o'clock noon, January 25, 1906, and opened at 8 o'clock p. m. by the Board of Affairs of said City in its room in the City Building, for the furnishing and installing complete a 250-H.P. Water Tuber Boiler, etc., at the Water-Works Station of said City.

Plans and specifications will be on file and may be seen at the office of Frank Good, Auditor of said City of Parkersburg, and also at the office of G. L. McKibben, Consulting Engineer, Van Wert, Ohio, and all bids must be made in strict conformity as set out in said plans and specifications.

A certified check for 10% of the amount of the bid, payable to Frank Good, Auditor of the City of Parkersburg, must accompany each bid.

The right is reserved to reject any and all bids.

FRANK GOOD,
Auditor of the City of Parkersburg, W. Va.
3-2t

FORT MEADE, S. D., January 11, 1906.—Sealed proposals, in triplicate, for furnishing and installing electric light fixtures in six sets of officers' quarters, two sets noncommissioned officers' quarters, one double barrack, constructing secondary and service lines, furnishing transformers and Watt meters will be received here until 2 p. m., January 31, 1906. Bidders who are not manufacturers of the goods called for will submit the name of the manufacturer from whom the goods are to be obtained. Information furnished upon application. U. S. reserves right to accept or reject any or all proposals or any part thereof. Specifications may be obtained by application to this office. Envelopes containing proposals should be marked "Proposals for electric fixtures, Fort Meade, S. D.," addressed Major GEORGE K. HUNTER, Constructing Quartermaster. 3-2t

HYDRAULIC ELEVATOR.

Office of the City Clerk,
Grand Rapids, Mich., Jan. 12, 1906.

Sealed proposals will be received at the office of the City Clerk in said city until 7.30 o'clock p. m. of Monday, March 5th, 1906, for one Hydraulic Elevator to be installed complete in the City Hall. Bidders will submit proposals on the following types:

Plunger Hydraulic, Vertical Hydraulic and Horizontal Hydraulic. Specifications can be seen at the office of the City Clerk, or will be sent on request.

JOHN L. BOER,
3-2t City Clerk.

PAVING AND GRADING.

Lawrence, Kansas.

Bids will be received at the office of City Clerk, Lawrence, Kan., until 12 o'clock M., Feb. 5, 1906, for the improvement of six city streets. The approximate quantities of work are: Grading, 12,000 cu. yds.; limestone curbing, 7,000 lin. ft.; vitrified brick paving (2 course), 33,000 sq. yds.

F. D. BROOKS,
City Clerk.

HOLLAND WHEELER,
City Engineer. 3-1t

DELAWARE CITY, DEL., Jan. 16, 1906.—Sealed proposals, in triplicate, will be received here until 10.30 a. m., Feb. 6, 1906, for constructing veranda around ward, etc., of Hospital at Fort Mott, N. J. Information furnished on application. U. S. reserves right to accept or reject any or all bids or any part thereof. Envelopes containing bids should be indorsed "Proposals for Hospital Improvements," addressed CAPTAIN LOUIS F. GARRARD, JR., Q. M. 3-2

SITUATIONS OPEN

WANTED.—Experienced superintendent to take charge of bridge and structural shop in the East. Good salary and position to right man. Apply with reference to "G. B. 3," Engineering News, New York. 3-1t

WANTED.—A mechanical engineer thoroughly experienced in design, repair and maintenance of bridge shop machinery. Shop has capacity of 18,000 tons per annum. State age, education, experience and salary. Address "H. B. 3," Engineering News, New York. 3-2t

WANTED.—Two competent draftsmen thoroughly experienced in design of coal handling machinery. State education, experience and salary required. Address "I. B. 3," Engineering News, New York. 3-2t

WANTED.—Experienced, rapid draftsman on railroad topographical maps, etc. Also one first-class levelman, graduate engineer preferred. State experience in detail and salary expected. Address "ENGINEER," P. O. Box 212, Covington, Va. 3-2t

WANTED.—A structural draftsman with experience in laying out work, detailing and checking, by a company in Eastern Pennsylvania. State salary, age, experience and whether married or single. Address "K. B. 3," Engineering News, New York. 3-1t

WANTED.—One or two experienced superintendents or assistant superintendents familiar with all classes of street paving, sewer and general contract work. PARKER-WASHINGTON CO., Chamber Commerce, Chicago. 3-1t

Bushnell's Perfect Letter-Copying Books

are known and used all around the world. No press required. Copies are perfect. Books go in the grip. For more than twenty years these books have held the field. The traveler finds them indispensable. For private use they have no equal. Hundreds of Engineers use them when in the field, or on construction work, as they meet all requirements in a most satisfactory manner.

Full instructions for use are given with each book.

Books will be sent by mail, post-paid, on receipt of price.

Fig. 1. Shows the Book partly opened

Fig. 2. Shows the Book rolled up

Every Book fully guaranteed

SIZE	PRICE
No. 2. 10 x 12 inches, 100 leaves,	$1.00
" 20. 10 x 12 " 150 "	1.30

Anyone can use them anywhere

Buy of your Stationer or send direct to us

ALVAH BUSHNELL CO., Manufacturers
2 North 13th Street, Philadelphia, Pa.

REPRINTS FROM ENGINEERING NEWS FREE

The following short articles, which recently appeared in ENGINEERING NEWS, have been reprinted, and one of the reprints will be sent to anyone who will send us a few items regarding proposed construction work for noting in our news columns:

- **"Data of Roads and Pavements in Iowa," by Prof. A. Marston, of the Iowa Univ.**
- **"Itemized Bids for Furnishing the Material and Erecting the Large Filtration Plant in Pittsburg, Pa."**
- **"Desirable Entrance Requirements for Engineering Colleges," by Prof. Wm. Kent, of Syracuse University.**
- **"The College Education of the Engineer," by Prof. Wm. Kent.**
- **"Editorial on the Panama Canal Question," from Engineering News, of Dec. 14, 1905.**
- **"Safeguarding of Life in Theatres," Presidential address of John R. Freeman, before the Am. Soc. of Mech. Engrs.**
- **"How to Draw Specifications which will Shut Out Competition, etc.," and "Twice Told Proverbs for Engineers."**
- **"A New Way of Advertising for Help," from *Printers' Ink*. (A suggestion to employers saving time and money.)**

Send in a few news items and get one of these reprints.

ENGINEERING NEWS
220 Broadway, New York

No. 3.

ATOR.

City Clerk.
n. 12, 1906.
eived at the
city until 7.30
ch 5th, 1906
be installed
ders will sub-
types:
Hydraulic and
fications can
ity Clerk, or

BOER,
City Clerk.

DING.

e, Kansas.
office of City
2 o'clock M.
nt of six (6)
uantities of
yds.; lime-
itrified brick
s.

OOKS,
City Clerk.

3-1t

n. 16, 1906.—
will be re-
Feb. 6, 1906,
d ward, etc.,
Information
S. reserves
r all bids or
ntaining bids
for Hospital
TAIN LOUIS
3-2t

OPEN

ntendent to
d structural
ry and pos-
with refer-
ering News.
3-1t

ineer ther-
, repair and
machinery.
tons per an-
experience
3, 3," Eng.
3-2t

tsmen ther-
gn of coal
education.
d. Address
, New York.
3-2t

draftsman
s, etc. Also
duate engi-
ence in de-
Address
, Covington.
3-2t

sman with
k, detailing
in Eastern
age, ex-
d or single.
ering News.
3-1t

nced super-
erintendents
street pav-
tract work.
, Chamber
3-1f

OM
EWS

which re-
NG NEWS,
no reprints
send us a
nstruction
ans:
in Iowa."
Iowa Univ.
the Mate-
Filtration
nents for
Prof. Wm.
Engineer,"
nal Ques-
s, of Loc.
a "Presi-
Fre man,
Engrs.
hich will
n.," and
gineers."
p." from
n to (m-
y)
and get
s.

WS
k

Supplem

CONSTRUCT
Plans an
List of
Railways
Electric
Light an
Bridges
Building
Water S
Sewerag
Garbage
Streets
Manufac
Miscella
U. S. P
Contrac
READERS'
CIVIL SE
INDUSTRI
TRADE P
PROPOSA

PLAN

The foll
ding Shee
gineering
York:

Bids
close.
Jan.
*25—Sew
25—Wir
N
*31—Wat
*31—Fixt
Feb.
*1—Can
*1—Pow
*1—Dar
1—Ves
1—Wa
*1—Con
2—Dit
3—Wa
5—Dr
*6—Po

*6—Po
*6—W
*7—Bu
*8—Gas
*8—Ste
10—Fi
10—St
10—Pl
*14—Br
*16—Se
Mch.
*5—El
*10—Tu
Apr.
*2—P
5—W

*Won

NOT
bidding
work
contra
if mo
distrib
the w
the p
tiseme

Bids

Jan.
Jan.
Feb.

Feb.
Feb.
Feb.
Feb.

Feb.

Feb.
Feb.
Feb.

Feb.

Feb.

Jan.
Feb.
Feb.
Feb.
Feb.
Feb.